MARCH 11, 1940 NUMBER 353

THE UNIVERSITY OF NORTH CAROLINA RECORD

THE ONE HUNDRED AND FORTY-SIXTH SESSION

THE GENERAL CATALOGUE

CATALOGUE ISSUE
1939-1940

Announcements for the Session
1940-1941

THE UNIVERSITY OF NORTH CAROLINA PRESS
ISSUED 12 TIMES A YEAR AS FOLLOWS: 4 NUMBERS IN FEBRUARY, 3 NUMBERS
IN MARCH, 3 NUMBERS IN APRIL, 1 NUMBER EACH IN JUNE AND OCTOBER
ENTERED AS SECOND-CLASS MATTER AT THE POSTOFFICE AT
CHAPEL HILL, N. C.
UNDER THE ACT OF AUGUST 24, 1912

ISSUES OF THE UNIVERSITY RECORD 1939-1940

Research in Progress
Report of the President to the Trustees
Catalogue of the School of Pharmacy
Catalogue of the School of Medicine
Catalogue of the School of Library Science
Catalogue of the Summer Session
General Catalogue
The Division of Public Welfare and Social Work
The Division of Public Health
Catalogue of the Graduate School
Catalogue of the School of Law
Catalogue of the School of Commerce

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CALENDAR FOR 1940

JANUARY

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CALENDAR FOR 1941

JANUARY

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CATALOGUE OF EVENTS

SESSION, 1940-1941

1940	
June 9-11	*Sunday through Tuesday.* Commencement Exercises.
June 13-July 20	Summer Session. First Term.
July 22-August 28	Summer Session. Second Term.
July 27	*Saturday.* Comprehensive Examinations.
Sept. 19-20	*Thursday and Friday.* Examinations to remove condition grades and for advanced standing.
Sept. 19-23	*Thursday through Monday.* Freshman Week.
Sept. 23	*Monday.* Registration of Freshmen and Transferring Students for the fall quarter.
Sept. 24	*Tuesday.* Registration (except Freshmen and Transferring Students) for the fall quarter.
Sept. 25	*Wednesday.* Class work for the fall quarter begins.
Oct. 12	*Saturday.* University Day.
Nov. 23	*Saturday.* Comprehensive Examinations.
Nov. 27	*Wednesday.* Thanksgiving Recess begins at 1:00 p.m.
Dec. 2	*Monday.* Thanksgiving Recess ends at 8:30 a.m.
Dec. 12-20	*Thursday through Friday at 1:00 p.m. of the following week.* Registration for the winter quarter.
Dec. 16-20	*Monday through Friday at 1:00 p.m.* Examinations for the fall quarter.
Dec. 20(afternoon)-Jan. 1, 1941	Christmas Recess.
1941	
Jan. 2	*Thursday.* Class work for the winter quarter begins.
Feb. 15	*Saturday.* Comprehensive Examinations.
March 10-18	*Monday through Tuesday at 1:00 p.m. of the following week.* Registration for the spring quarter.
March 13-18	*Thursday through Tuesday at 1:00 p.m.* Examinations for the winter quarter.
March 18-23	*Tuesday afternoon through Sunday.* Spring Recess.
March 24	*Monday.* Class work for the spring quarter begins.
May 10	*Saturday.* Comprehensive Examinations.
June 2-6	*Monday through Friday.* Examinations for the spring quarter.
June 8-10	*Sunday through Tuesday.* Commencement Exercises.

PART ONE—OFFICERS

TRUSTEES

CLYDE ROARK HOEY, Governor, President *ex officio* of the Board of Trustees.

CLYDE ATKINSON ERWIN, Superintendent of Public Instruction, member *ex officio* of the Board of Trustees.

*HENRY MAUGER LONDON, Secretary of the Board.

THE BOARD OF TRUSTEES

**1941

Miss Annie Moore Cherry	Halifax
James Edward Butler	Burke
Hayden Clement	Rowan
Josephus Daniels	Wake
Crayon Cornelius Efird	Stanly
John C. Blucher Ehringhaus	Wake
Reuben Oscar Everett	Durham
Richard Tillman Fountain	Edgecombe
Jones Fuller	Durham
James Alexander Gray	Forsyth
Junius Daniel Grimes	Beaufort
Reginald Lee Harris	Person
Robert Eugene Little	Anson
Mrs. Lily C. Morehead Mebane	Rockingham
Cameron Morrison	Mecklenburg
Harriss Newman	New Hanover
Clarence Poe	Wake
Julian Hawley Poole	Moore
Marvin Lee Ritch	Mecklenburg
Miss Easdale Shaw	Richmond
Mrs. May Lovelace Tomlinson	Guilford
Irvin Burchard Tucker	Columbus
George Robert Ward	Duplin
John Kenyon Wilson	Pasquotank
Graham Woodard	Wilson

*1943

Alexander Boyd Andrews	Wake
Dudley Bagley	Currituck
Walter Dorsey Barbee	Northampton
Kemp Davis Battle	Nash

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* Died 30 December 1939.

** The legal term of office expires April 1st of the year indicated.

James Albert Bridger	Bladen
Mrs. Minnie McIver Brown	Columbus
Charles Fletcher Cates	Alamance
Richard Thurmond Chatham	Forsyth
William Grimes Clark	Edgecombe
Arthur Mills Dixon	Gaston
Rufus Alexander Doughton	Alleghany
Thomas Crawford Hoyle, Jr	Guilford
Robert Grady Johnson	Pender
Andrew Hall Johnston	Buncombe
Charles Andrew Jonas	Lincoln
Kemp Plummer Lewis	Durham
Arthur Hill London	Chatham
Mrs. Gertrude Wills McKee	Jackson
James Edward Millis	Guilford
Andrew Lee Monroe	Wake
Kemp Battle Nixon	Lincoln
John Johnston Parker	Mecklenburg
Richard Joshua Reynolds	Forsyth
Miss Lelia Styron	Craven
Samuel Farris Teague	Wayne

*1945

Samuel Masters Blount	Beaufort
Victor Silas Bryant	Durham
John Washington Clark	Randolph
Mrs. Laura Weill Cone	Guilford
Henry Groves Connor, Jr	Wilson
Isaac Peter Davis	Dare
John Gilmer Dawson	Lenoir
Carl Thomas Durham	Orange
Raymond Rowe Eagle	Craven
John Bartlett Fearing	Bertie
Alonzo Dillard Folger	Surry
George Chancellor Green	Halifax
Edwin Clarke Gregory	Rowan
John Sprunt Hill	Durham
Henry Lewis Ingram	Randolph
Benjamin Kittrell Lassiter	Granville
Mrs. Daisy Hanes Lassiter	Mecklenburg
**Henry Mauger London	Wake
George Bason Mason	Gaston
Edwin Pate	Scotland
James Carlton Pittman	Lee
John Benton Stacy	Rockingham

---

* The legal term of office expires April 1st of the year indicated.

** Died 30 December 1939.

KENNETH SPENCER TANNER	Rutherford
LESLIE WEIL	Wayne
FRANCIS DONNELL WINSTON	Bertie

*1947

MRS. KATHARINE PENDLETON ARRINGTON	Warren
HERBERT DALTON BATEMAN	Wilson
EMMETT HARGROVE BELLAMY	New Hanover
BURTON CRAIGE	Forsyth
WILLIAM EATON FENNER	Nash
OLIVER MAX GARDNER	Cleveland
HARRY PERCY GRIER, JR	Iredell
IRA THOMAS JOHNSTON	Ashe
JOHN HOSEA KERR	Warren
MARK C. LASSITER	Greene
WILLIE LEE LUMPKIN	Franklin
GEORGE LAFAYETTE LYERLY	Catawba
LENNOX POLK MCLENDON	Guilford
HENRY BURWELL MARROW	Johnston
WILLIAM DANIEL MERRITT	Person
WALTER MURPHY	Rowan
CHARLES BENJAMIN PARK, JR	Wake
HAYWOOD PARKER	Buncombe
JAMES TURNER PRITCHETT	Caldwell
CARL A. RUDISILL	Gaston
GEORGE STEPHENS	Buncombe
FRED ISLER SUTTON	Lenoir
HOYT PATRICK TAYLOR	Anson
JOHN WESLEY UMSTEAD, JR	Orange
CHARLES WHEDBEE	Perquimans

EXECUTIVE COMMITTEE OF THE TRUSTEES

CLYDE ROARK HOEY, *ex officio* Chairman
**HENRY MAUGER LONDON, *ex officio* Secretary

‡1940: JOHN SPRUNT HILL, WALTER MURPHY, JOHN J. PARKER.
‡1942: MRS. LAURA WEILL CONE, HAYWOOD PARKER, MISS EASDALE SHAW.
‡1944: JOSEPHUS DANIELS, CLARENCE POE, IRWIN B. TUCKER.
‡1946: O. MAX GARDNER, LESLIE WEIL, CHARLES WHEDBEE.

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* The legal term of office expires April 1st of the year indicated.
** Died 30 December 1939.
‡ Term expires.

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THE CONSOLIDATED UNIVERSITY

(Office at Chapel Hill)

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
William Donald Carmichael, Jr., S.B.Comm., *Controller*

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Robert Ervin Coker
Herman Glenn Baity
Albert Ray Newsome
William Frederick Prouty
John William Harrelson
Monroe Evans Gardner
Thomas Nelson
Jasper Leonidas Stuckey
Lillian Lee Vaughan
Walter Clinton Jackson
Benjamin Burks Kendrick
Meta Helena Miller
Cornelia Strong
James Albert Highsmith

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

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Robert Burton House, A.M., LL.D., *Dean of Administration*
Thomas James Wilson, Jr., Ph.D., *Secretary of the Faculty*
Allan Wilson Hobbs, Ph.D., *Chairman* pro tempore *of the Faculty*
Julius Algernon Warren, *Treasurer*

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William Whatley Pierson, Ph.D., *Dean of the Graduate School*
Maurice Taylor VanHecke, J.D., *Dean of the School of Law.*
William deBerniere MacNider, M.D., Sc.D., LL.D., *Dean of the School of Medicine*
John Grover Beard, Ph.G., Ph.M., *Dean of the School of Pharmacy*
Dudley deWitt Carroll, M.A., *Dean of the School of Commerce*
Corydon Perry Spruill, A.B., B.Litt. (Oxon.), *Dean of the General College*
Susan Grey Akers, Ph.D., *Director of the School of Library Science*

ADMINISTRATIVE OFFICERS OF STUDENT WELFARE

Francis Foster Bradshaw, Ph.D., *Dean of Students, Chairman of the Division of Student Welfare*
Samuel William John Welch, S.B., *Assistant to the Dean of Students*

FREDERICK HENRY WEAVER, A.B., *Assistant to the Dean of Students*
MRS. MARVIN HENDRIX STACY, *Adviser to Women*
WALTER REECE BERRYHILL, A.B., M.D., *University Physician*
EDWARD McGOWAN HEDGPETH, A.B., M.D., *Associate University Physician*
WILLIAM GARDNER MORGAN, A.B., M.D., *Assistant University Physician*
ROBERT EDWARDS STONE, A.B., M.D., *Assistant University Physician*
FOY ROBERSON, M.D., *Surgical Consultant for Freshman and Varsity Football Squads*
ROBERT ALLISON FETZER, B.S., M.A., *Director of Physical Education and Athletics*
OLIVER KELLY CORNWELL, M.A., *Director of Physical Education for Men*
GLADYS ANGEL BEARD, M.A., *Director of Physical Education for Women*
*HARRY FULCHER COMER, M.A., *General Secretary of the Y. M. C. A.*
WILLIAM WAKEFIELD McKEE, A.B., B.D., *Acting General Secretary of the Y. M. C. A.*
EDWIN SIDNEY LANIER, *Self-Help Secretary*
ROBERT NATHANIEL MAGILL, A.B., *Director of the Graham Memorial*

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THOMAS JAMES WILSON, JR., Ph.D., *Dean of Admissions, Registrar, and Editor of The University of North Carolina Record*
BEN HUSBANDS, A.B., *Associate Registrar*
GEORGE KENNETH GRANT HENRY, Ph.D., *Assistant Registrar*

The Central Office of Records

ISAAC CEBERN GRIFFIN, JR., M.A., *Director*
MISS JOSEPHINE PRITCHARD, *Recorder*

ADMINISTRATIVE OFFICERS OF THE BUSINESS ORGANIZATION

LIVINGSTON BERTRAM ROGERSON, C.P.A., *Assistant Controller and Business Manager*
GEORGE MAURICE HILL, *Assistant Business Manager and Personnel Officer*
ALEXANDER HURLBUTT SHEPARD, A.B., M.A., *Statistician and Budget Assistant*
LOUIS DEROSSET MACMILLAN, A.B., C.P.A., *Auditor*

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* Absent on leave 1939-1940.

KEMP SHIELDS CATE, *Escheats Accountant*
JOHN SAMUEL BENNETT, B.S., R.E., *Supervisor of Public Utilities and Auxiliary Enterprises*
PETER LAFAYETTE BURCH, *Supervisor of the Physical Plant*
JAMES ALLEN WILLIAMS, A.B., LL.B., *Supervisor of Credits and Collections*
RALPH CULLEN SMITH, C.P.A., *Supervisor of Accounting and Control*
JAMES ARTHUR BRANCH, *Supervisor of Purchases and Stores*
ARTHUR RUSSELL HOLLETT, S.M. in C.E., R.E., *Engineer of the Physical Plant*
HENRY EDWARD THOMPSON, S.B. in E.E., *Superintendent of Public Utilities*
THERA EARL HINSON, S.M., *Supervisor of the Residence Halls*
ERRETT FRANK COOLEY, *Manager of the Cafeteria and Dining Halls*
WILBUR SCHULTZ KUTZ, B.S., *Manager of the Student Supply Stores*
JOHN WESLEY HUMPHRIES, *Superintendent of the Laundry*
JAMES LEIGH SKINNER, *Manager of the Carolina Inn and Apartments*
C. B. HUGGINS, *Zone Superintendent of the Physical Plant*
DEWEY M. HORNER, *Zone Superintendent of the Physical Plant*
GILES FOUSHEE HORNEY, B.S. in E.E., *Superintendent of the Repair and Construction Shops*
THOMAS HILTON EVANS, B.S., *General Cashier*
HAROLD WEAVER, *Cashier of the Campus Office*
JAMES RALPH WEAVER, JR., A.B. in Ed., *Cashier of the Town Office*
RUTH COVINGTON, A.B., *Cashier of the Loan Funds*

THE UNIVERSITY LIBRARY

CARL MILTON WHITE, Ph.D., *Librarian*

THE UNIVERSITY EXTENSION DIVISION

*RUSSELL MARVIN GRUMMAN, B.H., *Director*
RALPH WALDO MCDONALD, Ph.D., *Associate Director*
EDGAR RALPH RANKIN, A.M., *Head, Department of School Relations*
WILLIAM JOHN MCKEE, C.E., Ph.D., *Supervisor of Correspondence Instruction*
MISS MARY LOUISA COBB, A.B., *Head, Bureau of Correspondence Instruction*
MISS FRANCES MARTIN, A.B., *Head, Bureau of Class Instruction*

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* Absent on leave, fall quarter 1939-1940.

ALUMNI OFFICES AND CAROLINA INN

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James Leigh Skinner, *Resident Manager, Carolina Inn*

THE UNIVERSITY NEWS BUREAU

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Marion Romaine Alexander, A.B., LL.B., *Shorts Writer and Staff Assistant*

THE UNIVERSITY OF N. C. PRESS

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HILL HALL OF MUSIC

Glen Haydon, Ph.D., *Director*

PERSON HALL ART GALLERY

Russell Train Smith, A.B., M.Arch., *Director*

OFFICERS OF INSTRUCTION (1939-1940)

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt., *President.*
A.B., 1909 (North Carolina); M.A., 1916 (Columbia); LL.D. (Birmingham-Southern, Davidson, Duke); D.C.L. (Catawba); D.Litt. (Columbia).

ROBERT BURTON HOUSE, A.M., LL.D., *Dean of Administration.*
A.B., 1916 (North Carolina); A.M., 1917 (Harvard); LL.D. (Catawba).

HENRY HORACE WILLIAMS, A.M., B.D., *Kenan Professor Emeritus of Philosophy.*
A.B., A.M., 1883 (North Carolina); B.D., 1888 (Yale).

*CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Anatomy.*
A.B., 1891 (North Carolina); M.D., 1894 (Jefferson Medical College).

MARCUS CICERO STEPHENS NOBLE, Pd.D., *Kenan Professor Emeritus of Pedagogy.*
Student, 1875-1876 (Davidson); Student, 1877-1879 (North Carolina); Pd.D. (Davidson).

ISAAC HALL MANNING, M.D., *Kenan Professor Emeritus of Physiology.*
Student, 1882-1886 (North Carolina); M.D., 1897 (Long Island College of Medicine).

WILLIAM DEBERNIERE MACNIDER, M.D., Sc.D., LL.D., *Kenan Research Professor of Pharmacology and Dean of the School of Medicine.*
M.D., 1903 (North Carolina); Sc.D. (Medical Coll. of Va.); LL.D. (Davidson).

WILLIAM CHAMBERS COKER, Ph.D., LL.D., *Kenan Professor of Botany.*
B.S., 1894 (South Carolina); Ph.D., 1901 (Johns Hopkins); LL.D. (South Carolina).

ARCHIBALD HENDERSON, Ph.D., D.C.L., LL.D., Litt.D., *Kenan Professor of Mathematics.*
A.B., 1898, A.M., 1899, Ph.D., 1902 (North Carolina); Ph.D., 1915 (Chicago); D.C.L. (University of the South); LL.D. (Tulane, William and Mary); Litt.D. (Oglethorpe, Catawba).

JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., *Kenan Professor of American History and Political Science and Director of the Southern Collection.*
M.A., 1900 (University of the South); Ph.D., 1906 (Columbia).

HENRY MCGILBERT WAGSTAFF, Ph.D., *Professor of History.*
Ph.B., 1899 (North Carolina); Ph.D., 1906 (Johns Hopkins).

WILLIAM MORTON DEY, Ph.D., *Kenan Professor of the Romance Languages and Literatures.*
B.A., M.A., 1902 (Virginia); A.M., 1904, Ph.D., 1906 (Harvard).

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* Died 29 September 1939.

ALVIN SAWYER WHEELER, Ph.D., *Kenan Professor Emeritus of Organic Chemistry.*
A.B., 1890 (Beloit); A.M., 1897, Ph.D., 1900 (Harvard).

JAMES BELL BULLITT, A.M., M.D., *Professor of Pathology.*
A.B., 1894, A.M., 1895 (Washington and Lee); M.D., 1897 (Virginia).

THOMAS JAMES WILSON, JR., Ph.D., *Dean of Admissions, Registrar, and Secretary of the Faculty.*
A.B., 1894, A.M., 1896, Ph.D., 1898 (North Carolina).

DUDLEY DEWITT CARROLL, M.A., *Professor of Economics and Dean of the School of Commerce.*
A.B., 1907 (Guilford); A.B., 1908 (Haverford); M.A., 1915 (Columbia).

FREDERICK HENRY KOCH, A.M., Litt.D., *Kenan Professor of Dramatic Literature.*
A.B., 1900 (Ohio Wesleyan); A.M., 1909 (Harvard); Litt.D. (North Dakota; Ohio Wesleyan).

JOHN GROVER BEARD, Ph.G., Ph.M., *Professor of Materia Medica and Dean of the School of Pharmacy.*
Ph.G., 1909 (North Carolina); Ph.M. (Philadelphia College of Pharmacy).

EDGAR WALLACE KNIGHT, Ph.D., *Kenan Professor of Education.*
A.B., 1909, A.M., 1911 (Trinity); Ph.D., 1913 (Columbia).

WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*
B.S., 1903, M.S., 1904 (Syracuse); Ph.D., 1906 (Johns Hopkins).

HOWARD WASHINGTON ODUM, Ph.D., LL.D., Litt.D., *Kenan Professor of Sociology.*
A.B., 1904 (Emory); A.M., 1906 (Mississippi); Ph.D., 1909 (Clark); Ph.D., 1910 (Columbia); LL.D. (Emory); Litt.D. (College of the Ozarks).

JOHN MANNING BOOKER, Ph.D., *Professor of English.*
A.B., 1901 (Johns Hopkins); Ph.D., 1912 (Heidelberg).

THOMAS FELIX HICKERSON, A.M., S.B., *Professor of Applied Mathematics.*
Ph.B., 1904, A.M., 1907 (North Carolina); S.B., 1909 (Massachusetts Institute of Technology).

WILLIAM WHATLEY PIERSON, Ph.D., *Professor of History and Political Science and Dean of the Graduate School.*
A.B., 1910, A.M., 1911 (Alabama); A.M., 1912, Ph.D., 1916 (Columbia).

JOHN FREDERICK DASHIELL, Ph.D., *Kenan Professor of Psychology.*
B.S., 1908, B.L., 1909 (Evansville); M.A., 1910, Ph.D., 1913 (Columbia).

FRANCIS FOSTER BRADSHAW, Ph.D., *Dean of Students and Professor of Philosophy.*
A.B., 1916 (North Carolina); M.A., 1926, Ph.D., 1930 (Columbia).

Sturgis Elleno Leavitt, Ph.D., *Professor of Spanish.*

A.B., 1908 (Bowdoin); A.M., 1913, Ph.D., 1917 (Harvard).

Kent James Brown, Ph.D., *Professor of German.*

A.B., 1901 (Dickinson); Ph.D., 1905 (Pennsylvania).

Robert Ervin Coker, Ph.D., *Kenan Professor of Zoology.*

S.B., 1896, A.M., 1897 (North Carolina); Ph.D., 1906 (Johns Hopkins).

George McFarland McKie, A.M., *Professor of Public Speaking and Adviser in the General College.*

Graduate, 1898 (Emerson College of Oratory); A.B., A.M., 1907 (North Carolina).

Earle Ewart Peacock, A.B., M.B.A., C.P.A., *Professor of Accounting.*

A.B., 1914 (Georgia); M.B.A., 1916 (Harvard); C.P.A., State of North Carolina.

Harry Wolven Crane, Ph.D., *Professor of Psychology and Psychological Consultant.*

A.B., 1909, A.M., 1910, Ph.D., 1913 (Michigan).

Arthur Melville Jordan, Ph.D., *Professor of Educational Psychology.*

A.B., 1907 (Randolph-Macon); A.M., 1909 (Trinity); Ph.D., 1919 (Columbia).

John Wayne Lasley, Jr., Ph.D., *Professor of Pure Mathematics.*

A.B., 1910, A.M., 1911 (North Carolina); Ph.D., 1920 (Chicago).

Allan Wilson Hobbs, Ph.D., *Professor of Applied Mathematics and Dean of the College of Arts and Sciences.*

A.B., 1907 (Guilford); A.B., 1908 (Haverford); Ph.D., 1917 (Johns Hopkins).

Wesley Critz George, Ph.D., *Professor of Histology and Embryology.*

A.B., 1911, A.M., 1912, Ph.D., 1918 (North Carolina).

Otto Stuhlman, Jr., Ph.D., *Professor of Physics.*

B.A., 1907 (Cincinnati); M.A., 1909 (Illinois); Ph.D., 1911 (Princeton).

Gustave Adolphus Harrer, Ph.D., *Kenan Professor of Latin.*

A.B., 1910, Ph.D., 1913 (Princeton).

*Erich Walter Zimmermann, Ph.D., *Kenan Professor of Economics.*

Student, 1903-1907 (Dusseldorf); Ph.D., 1911 (Bonn).

Robert Hasley Wettach, A.M., LL.B., S.J.D., *Professor of Law.*

A.B., 1913, A.M., 1914, LL.B., 1917 (Pittsburgh); S.J.D., 1921 (Harvard).

George Coffin Taylor, Ph.D., Litt.D., *Kenan Professor of English.*

A.B., 1897 (South Carolina); A.M., 1899 (Harvard); Ph.D., 1906 (Chicago); Litt.D. (South Carolina).

Oscar Jackson Coffin, A.B., *Professor of Journalism.*

A.B., 1909 (North Carolina).

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*Absent on leave September 1, 1939 to March 15, 1940.

WILLIAM JOHN MCKEE, C.E., Ph.D., *Professor of Education in Extension Teaching.*
C.E., 1909 (Cornell); M.A., 1919, Ph.D., 1930 (Columbia).

EDWARD JAMES WOODHOUSE, B.A., LL.B., *Professor of Political Science.*
B.A., 1903 (Randolph-Macon); LL.B., 1907 (Virginia).

*WILLIAM FLINT THRALL, Ph.D., *Professor of English.*
B.S., 1901, A.M., 1902 (McKendree); A.M., 1915, Ph.D., 1920 (Chicago).

ALBERT COATES, A.B., LL.B., *Professor of Law.*
A.B., 1918 (North Carolina); LL.B., 1923 (Harvard).

URBAN TIGNER HOLMES, JR., Ph.D., *Professor of Romance Philology.*
A.B., 1920 (Pennsylvania); A.M., 1921, Ph.D., 1923 (Harvard).

MITCHELL BENNETT GARRETT, Ph.D., *Professor of Modern European History.*
A.B., 1900, A.M., 1903 (Howard); Ph.D., 1910 (Cornell).

MILLARD BRECKENRIDGE, Ph.B., LL.B., *Professor of Law.*
Ph.B., 1917 (Chicago); LL.B., 1918 (Yale).

FRANK KENNETH CAMERON, Ph.D., *Professor of Chemistry.*
A.B., 1891, Ph.D., 1894 (Johns Hopkins).

ERNEST RUTHERFORD GROVES, A.B., B.D., *Research Professor of Sociology.*
A.B., 1903 (Dartmouth); B.D., 1907 (Yale).

HAROLD DIEDRICH MEYER, A.M., *Professor of Sociology.*
A.B., 1912, A.M., 1916 (Georgia).

ENGLISH BAGBY, Ph.D., *Professor of Psychology.*
A.B., 1913, A.M., 1914 (Princeton); Ph.D., 1918 (Johns Hopkins).

WALLACE EVERETT CALDWELL, Ph.D., *Professor of Ancient History.*
A.B., 1910 (Cornell); Ph.D., 1919 (Columbia).

MAURICE TAYLOR VANHECKE, Ph.B., J.D., *Professor of Law and Dean of the School of Law.*
Ph.B., 1916, J.D., 1917 (Chicago).

HENRY ROLAND TOTTEN, Ph.D., *Professor of Botany.*
A.B., 1913, A.M., 1914, Ph.D., 1923 (North Carolina).

HERMAN GLENN BAITY, Sc.D., *Professor of Sanitary and Municipal Engineering.*
A.B., 1917, S.B. in C.E., 1922 (North Carolina); M.S., 1925, Sc.D., 1928 (Harvard).

**JAMES PENROSE HARLAND, Ph.D., *Professor of Archaeology.*
A.B., 1913, A.M., 1915, Ph.D., 1920 (Princeton).

RICHARD JUNIUS MENDENHALL HOBBS, A.B., LL.B., *Professor of Business Law.*
A.B., 1909 (Guilford); A.B., 1911 (Haverford); LL.B., 1914 (Columbia).

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* Absent on leave, fall and winter quarters, 1939-1940.

** Absent on leave on the Kenan Foundation, fall quarter, 1939-1940.

KARL HARTLEY FUSSLER, Ph.D., *Professor of Physics.*
A.B., 1909 (Indiana); Ph.D., 1916 (Pennsylvania).

GEORGE RALEIGH COFFMAN, Ph.D., *Kenan Professor of English.*
A.B., 1903 (Drake); A.M., 1909 (Harvard); Ph.D., 1913 (Chicago).

JAMES TALMADGE DOBBINS, Ph.D., *Professor of Chemistry.*
A.B., 1911, A.M., 1912, Ph.D., 1914 (North Carolina).

SAMUEL HUNTINGTON HOBBS, JR., Ph.D., *Professor of Rural Social-Economics.*
A.B., 1916, A.M., 1917 (North Carolina); Ph.D., 1929 (Wisconsin).

DANIEL ALLAN MACPHERSON, Ph.D., *Professor of Bacteriology.*
Ph.B., 1919, Sc.M., 1920 (Brown); Ph.D., 1929 (Chicago).

JOHN BROOKS WOOSLEY, Ph.D., *Professor of Economics.*
A.B., 1912 (Guilford); A.B., 1913, A.M., 1914 (Haverford); Ph.D., 1931 (Chicago).

NICHOLSON BARNEY ADAMS, Ph.D., *Professor of Spanish.*
A.B., 1915 (Washington and Lee); M.A., 1920, Ph.D., 1922 (Columbia).

LOREN CAREY MACKINNEY, Ph.D., *Professor of Medieval History.*
A.B., 1913 (Lawrence); A.M., 1916 (Wisconsin); Ph.D., 1925 (Chicago).

HENRY MATTHEW BURLAGE, Ph.D., *Professor of Pharmacy.*
A.B., 1919 (Indiana); A.M., 1921 (Harvard); Ph.G., B.S. in Pharm., 1924 (Purdue); Ph.D., 1927 (Washington).

*HOWARD RUSSELL HUSE, Ph.D., *Professor of Romance Languages.*
Ph.B., 1913, Ph.D., 1930 (Chicago).

CORYDON PERRY SPRUILL, JR., A.B., B.Litt.(Oxon.), *Professor of Economics and Dean of the General College.*
A.B., 1920 (North Carolina); B.Litt., 1922 (Oxford).

EDWARD TANKARD BROWNE, Ph.D., *Professor of Mathematics.*
B.A., 1915, M.A., 1917 (Virginia); Ph.D., 1926 (Chicago).

GUSTAV THEODOR SCHWENNING, Ph.D., *Professor of Business Administration.*
B.H., 1920 (Springfield); M.A., 1921, Ph.D., 1925 (Clark).

GREGORY LANSING PAINE, Ph.D., *Professor of English.*
Ph.B., 1914, A.M., 1920, Ph.D., 1924 (Chicago).

**JOHN NATHANIEL COUCH, Ph.D., *Professor of Botany.*
A.B., 1919, A.M., 1922, Ph.D., 1924 (North Carolina).

SUSAN GREY AKERS, Ph.D., *Professor of Library Science and Director of the School of Library Science.*
A.B., 1909 (Kentucky); Ph.D., 1932 (Chicago).

***CLARENCE HEER, Ph.D., *Research Professor of Economics.*
A.B., 1914 (Rochester); Ph.D., 1926 (Columbia).

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* Absent on leave on the Kenan Foundation, fall quarter, 1939-1940.
** Absent on leave on the Kenan Foundation, winter quarter, 1939-1940.
*** Absent on leave, 1939-1940.

ERNEST LLOYD MACKIE, Ph.D., *Professor of Mathematics.*
A.B., 1917 (North Carolina); A.M., 1920 (Harvard); Ph.D., 1927 (Chicago).

FREDERICK BAYS MCCALL, A.B., LL.B., *Professor of Law.*
A.B., 1915 (North Carolina); LL.B., 1928 (Yale).

HARRY DEMERLE WOLF, Ph.D., *Professor of Economics.*
B.S., 1922 (Kansas State Teachers College); A.M., 1923, Ph.D., 1926 (Chicago).

EARLE KEITH PLYLER, Ph.D., *Professor of Physics.*
B.A., 1917, A.M., 1918 (Furman); A.M., 1923 (Johns Hopkins); Ph.D., 1924 (Cornell).

ARTHUR EDWARD RUARK, Ph.D., *Kenan Professor of Physics.*
A.B., 1921, A.M., 1923, Ph.D., 1924 (Johns Hopkins University).

GLEN HAYDON, Ph.D., *Professor of Music.*
A.B., 1918, M.A., 1921 (California); Ph.D., 1932 (Vienna).

ARTHUR PALMER HUDSON, Ph.D., *Professor of English.*
B.S., 1913, M.A., 1920 (Mississippi); A.M., 1925 (Chicago); Ph.D., 1930 (North Carolina).

JOHN CORIDEN LYONS, Ph.D., *Professor of French.*
B.S., 1920, M.A., 1921 (William and Mary); Ph.D., 1927 (North Carolina).

ALBERT RAY NEWSOME, Ph.D., *Professor of History.*
A.B., 1915 (North Carolina); M.A., 1922, Ph.D., 1929 (Michigan).

HUGH TALMADGE LEFLER, Ph.D., *Professor of History.*
A.B., 1921, A.M., 1922 (Trinity); Ph.D., 1931 (Pennsylvania).

*FLETCHER MELVIN GREEN, Ph.D., *Professor of History.*
Ph.B., 1920 (Emory); A.M., 1922, Ph.D., 1927 (North Carolina).

DANIEL HOUSTON BUCHANAN, Ph.D., *Professor of Economics.*
Litt.B., 1909 (Sterling College); A.B., 1911 (Colorado College); A.M., 1912 (Harvard); D.Sc. Econ., 1928 (Keiogijuku Univ., Tokyo); Ph.D., 1931 (Harvard).

OLIVER KELLY CORNWELL, M.A., *Professor of Physical Education.*
A.B., 1920 (Wittenberg College); M.A., 1929 (Ohio State).

ROBERT ALLISON FETZER, B.S., M.A., B.S. Ch. and E.E., *Director of Physical Education and Athletics.*
B.S., 1907, M.A., 1908 (Davidson); B.S. in Ch. and E. Eng'g., 1909 (Clemson).

PAUL ELLIOTT GREEN, A.B., *Professor of Dramatic Art.*
A.B., 1921 (North Carolina).

GUY BERRYMAN PHILLIPS, A.B., *Professor of Education and Adviser in the General College.*
A.B., 1913 (North Carolina).

RAYMOND B. WOLF, A.B., *Head Coach of Football.*
A.B., 1926 (Texas Christian).

**HOWARD KENNEDY BEALE, Ph.D., *Professor of History.*
Ph.B., 1921 (Chicago); A.M., 1922, Ph.D., 1927 (Harvard).

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* Absent on leave on the Kenan Foundation, fall quarter, 1939-1940.

** Absent on leave, spring quarter, 1939-1940.

MILTON JOSEPH ROSENAU, M.D., *Professor of Epidemiology and Director of the Division of Public Health.*
M.D., 1889 (Pennsylvania): student (Hygienische Institut, Berlin, 1892-1893; L'Institut Pasteur, Paris, 1900; Pathologisches Institut, Vienna, 1900); Hon. A.M. (Harvard).

HERBERT VONBECKERATH, D.Ec., *Visiting Professor and Lecturer on Social and Economic Theory.*
Student, 1905-1908 (FreiBurg, Bonne, and Berlin); Ref. in Law, 1909 (Bonne and Cologne); D.Ec., 1911 (FreiBurg).

WILEY BRITTON SANDERS, Ph.D., *Professor of Social Work.*
A.B., 1919 (Emory College); A.M., 1920 (Emory University); A.M., 1921 (North Carolina); Ph.D., 1929 (Chicago).

ALMONTE CHARLES HOWELL, Ph.D., *Professor of English and Adviser in the General College.*
A.B., 1917 (Denison); M.A., 1920 (Columbia); Ph.D., 1924 (North Carolina).

DOUGALD MACMILLAN, Ph.D., *Professor of English.*
A.B., 1918, A.M., 1920, Ph.D., 1925 (North Carolina).

CHARLES DALE BEERS, Ph.D., *Professor of Zoology.*
A.B., 1921, A.M., 1922 (North Carolina); Ph.D., 1925 (Johns Hopkins).

KEENER CHAPMAN FRAZER, A.M., *Professor of Political Science.*
A.B., 1920 (Wofford); A.M., 1921 (North Carolina).

CHARLES PHILLIPS RUSSELL, A.B., *Professor of Journalism.*
A.B., 1904 (North Carolina).

MARION LEE JACOBS, Ph.D., *Professor of Pharmaceutical Chemistry.*
Ph.C., 1921 (North Carolina); B.S. (Pharm.), 1925, M.Sc., 1926 (Nebraska); Ph.D., 1937 (Maryland).

ROY MELTON BROWN, Ph.D., *Professor of Public Welfare Administration and Director of the Division of Public Welfare and Social Work.*
A.B., 1906, A.M., 1921, Ph.D., 1929 (North Carolina).

RUPERT BAYLESS VANCE, Ph.D., LL.D., *Research Professor in the Institute for Research in Social Science.*
A.B., 1920 (Henderson-Brown); A.M., 1921 (Vanderbilt); Ph.D., 1928 (North Carolina); LL.D. (Hendrix College).

RALPH WALTON BOST, Ph.D., *Professor of Chemistry.*
A.B., 1923 (Newberry); A.M., 1924, Ph.D., 1928 (North Carolina).

*EDWARD MORRIS BERNSTEIN, Ph.D., *Professor of Economics.*
Ph.B., 1927 (Chicago); A.M., 1928, Ph.D., 1930 (Harvard).

JAMES CLARENCE ANDREWS, Ph.D., *Professor of Biological Chemistry.*
B.S. in Chem., 1915 (Iowa); Ph.D., 1918 (Columbia).

HARL ROY DOUGLASS, Ph.D., *Kenan Professor of Secondary Education.*
B.S., 1915, A.M., 1921 (Missouri); Ph.D., 1927 (Stanford).

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* Absent on leave on the Kenan Foundation, spring quarter, 1939-1940.

RICHARD JENTE, Ph.D., *Professor of the Germanic Languages and Literatures.*
A.B., 1910, A.M., 1911 (Yale); Ph.D., 1917 (Heidelberg).

*GEORGE FINGER THOMAS, Ph.D., *Professor of Philosophy.*
A.B., 1919 (Southern Methodist); Ph.D., 1929 (Harvard).

HAROLD WILLIAM BROWN, Sc.D., M.D., Dr.P.H., *Professor of Public Health.*
A.B., 1924 (Kalamazoo); M.S., 1925 (Kansas State); Sc.D., 1928 (Johns Hopkins); M.D., 1933 (Vanderbilt); Dr.P.H., 1936 (Harvard).

CARL MILTON WHITE, Ph.D., *University Librarian and Chairman of the Division of the Library and Library School.*
A.B., 1925 (Oklahoma Baptist University); M.A., 1928 (Mercer); Ph.D., 1933 (Cornell); B.S. in Library Science, 1934 (Columbia).

JOHN WILLIAM ROY NORTON, A.B., M.D., M.P.H., *Professor of Public Health Administration.*
A.B., 1920 (Duke); M.D., 1928 (Vanderbilt); M.P.H., 1936 (Harvard).

MALCOLM DEAN TAYLOR, M.B.A., *Professor of Marketing.*
A.B., 1920 (Oberlin); M.B.A., 1923 (Harvard).

SHIPP GILLESPIE SANDERS, A.M., *Professor of Latin and Adviser in the General College.*
A.B., 1909 (Southwestern); A.M., 1915 (Princeton).

JOE BURTON LINKER, Ph.D., *Professor of Mathematics.*
A.B., 1918, A.M., 1920 (North Carolina); Ph.D., 1924 (Johns Hopkins).

CARLETON ESTEY PRESTON, Ph.D., *Professor of the Teaching of Science.*
A.B., 1899, A.M., 1900, Ph.D., 1902 (Harvard).

MILTON SIDNEY HEATH, Ph.D., *Professor of Economics.*
A.B., 1918 (Kansas); A.M., 1924, Ph.D., 1938 (Harvard).

ROY WILLIAM MORRISON, Ph.D., *Professor of Education in Extension Teaching.*
A.B., 1916 (Davidson); Ph.D., 1928 (North Carolina).

HORACE DOWNS CROCKFORD, Ph.D., *Professor of Chemistry.*
B.S., 1920 (N. C. State College of Agriculture and Engineering); S.M., 1923, Ph.D., 1926 (North Carolina).

ESTON EVERETT ERICSON, Ph.D., *Professor of English.*
B.A., 1923 (Montana); M.A., 1925 (Maryland); Ph.D., 1928 (Johns Hopkins).

IRA WINFIELD ROSE, Ph.G., *Professor of Practical Pharmacy.*
Ph.G., 1906 (North Carolina).

RICHMOND PUGH BOND, Ph.D., *Professor of English.*
A.B., 1920 (Vanderbilt); A.M., 1923, Ph.D., 1929 (Harvard).

RAYMOND WILLIAM ADAMS, Ph.D., *Professor of English.*
A.B., 1920 (Beloit); A.M., 1921, Ph.D., 1928 (North Carolina).

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DANIEL FRANKLIN MILAM, A.B., M.D., C.P.H., *Professor of Nutrition in the Division of Public Health.*
A.B., 1916 (Vanderbilt); M.D., 1924 (Chicago); C.P.H., 1929 (Johns Hopkins).

WILLIAM LEROY FLEMING, B.A., M.S., M.D., *Research Professor of Syphilology in the Division of Public Health.*
B.A., 1925, M.S. in Bacteriology, 1927, M.D., 1932 (Vanderbilt).

HELMUT KUHN, Ph.D., *Visiting Professor of Philosophy.*
Ph.D., 1923 (Breslau).

WILLIAM FRANKLIN STINESPRING, Ph.D., *Visiting Professor in Classics.*
B.A., 1924, M.A., 1929 (Virginia); Ph.D., 1932 (Yale).

CLEMENS SOMMER, Ph.D., *Visiting Professor of Art.*
Ph.D., 1919 (FreiBurg).

WILEY KILPATRICK, Ph.D., *Visiting Professor of Economics.*
A.B., 1922 (Stanford); M.A., 1924 (Columbia); Ph.D., 1927 (Brookings).

ADOLF BERTRAM DRUCKER, D.Pol.Sci., *Lecturer in Economics.*
D. Pol. Sci., 1899 (Vienna).

FRANZ GUTMANN, D.Ec., *Lecturer in Economics.*
D. Ec., 1904 (Strassburg).

ERVIN HEXNER, D.Pol.Sci., J.D., *Lecturer in Economics.*
D. Pol. Sci., 1918 (Cluj); J.D., 1919 (Bratislava).

WILLIAM MEADE PRINCE, *Lecturer in Art.*

ROBERT BAKER LAWSON, M.D., *Associate Professor of Physical Education.*
Student, 1897-1900 (North Carolina); M.D., 1902 (Maryland).

ARTHUR SIMEON WINSOR, Ph.D., *Associate Professor of Mathematics.*
A.B., 1914, A.M., 1915 (Mount Allison); Ph.D., 1927 (Johns Hopkins).

FLOYD HARRIS EDMISTER, Ph.D., *Associate Professor of Chemistry.*
B.S., 1912 (Syracuse); M.S., 1913 (Louisiana State); Ph.D., 1918 (Syracuse).

JOSEPH MERRITT LEAR, M.A., *Associate Professor of Insurance.*
A.B., 1900, A.M., 1902 (Randolph-Macon); M.A., 1915 (Columbia).

PRESTON COOKE FARRAR, M.A., *Associate Professor of the Teaching of English.*
A.B., 1891 (Washington and Jefferson); M.A., 1904 (Columbia).

HUGO GIDUZ, A.B., *Associate Professor of the Teaching of French.*
A.B., 1905 (Harvard).

HERMAN HENRY STAAB, M.A., *Associate Professor of Romance Languages.*
B.A., M.A., 1912 (University of the South).

HOWARD FREDERICK MUNCH, A.M., *Associate Professor of the Teaching of Mathematics.*
B.S., 1904 (Adrian College); A.M., 1926 (Chicago).

RALPH McCOY TRIMBLE, C.E., S.M., *Associate Professor of Applied Mathematics.*
C.E., 1921 (Virginia); S.M., 1927 (North Carolina).

FRANK WILLIAMS HANFT, A.B., S.J.D., *Associate Professor of Law.*
LL.B., 1924, A.B., 1929, LL.M., 1929 (Minnesota); S.J.D., 1931 (Harvard).

PAUL WOODFORD WAGER, Ph.D., *Associate Professor of Political Science.*
B.S., 1917 (Hobart College); A.M., 1920 (Haverford); Ph.D., 1927 (North Carolina).

STEPHEN ALBERT EMERY, Ph.D., *Associate Professor of Philosophy.*
A.B., 1923, Ph.D., 1928 (Cornell).

RALPH STEELE BOGGS, Ph.D., *Associate Professor of Spanish.*
Ph.B., 1926, Ph.D., 1930 (Chicago).

GRANT LESTER DONNELLY, A.B. in Educ., M.D., *Associate Professor of Pharmacology.*
A.B. in Educ., 1929 (North Carolina); M.D., 1933 (Duke).

*GUY BENTON JOHNSON, Ph.D., *Research Associate in the Institute for Research in Social Science.*
A.B., 1921 (Baylor); A.M., 1922 (Chicago); Ph.D., 1927 (North Carolina).

HARRIET LAURA HERRING, A.M., *Research Associate in the Institute for Research in Social Science.*
A.B., 1913 (Meredith); A.M., 1918 (Radcliffe).

KATHARINE JOCHER, Ph.D., *Research Associate in and Assistant Director of the Institute for Research in Social Science.*
A.B., 1922 (Goucher); A.M., 1923 (Pennsylvania); Ph.D., 1929 (North Carolina).

BEN HUSBANDS, A.B., *Associate Registrar and Examiner.*
A.B., 1927 (North Carolina).

MICHAEL ARENDELL HILL, JR., A.M., *Associate Professor of Mathematics and Adviser in the General College.*
A.B., 1920, A.M., 1921 (North Carolina).

JAMES GILBERT EVANS, M.A., *Associate Professor of Economics.*
A.B., 1921 (Simpson); M.A., 1924 (Illinois).

ROBERT HOWARD SHERRILL, M.A., C.P.A., *Associate Professor of Accounting.*
S.B.Comm., 1925 (North Carolina); M.A., 1927 (Columbia); C.P.A., State of North Carolina.

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* Absent on leave, 1939-1940.

STERLING AUBREY STOUDEMIRE, Ph.D., *Associate Professor of Spanish.*
A.B., 1923, A.M., 1924, Ph.D., 1930 (North Carolina).

WILLIAM SUMNER JENKINS, LL.B., Ph.D., *Associate Professor of Political Science.*
A.B., 1924, A.M., 1925, Ph.D., 1927, LL.B., 1931 (North Carolina).

CHARLES BASKERVILLE ROBSON, Ph.D., *Associate Professor of Political Science.*
A.B., 1919 (Davidson); A.M., 1924 (Princeton); Ph.D., 1930 (North Carolina).

WILLIAM LEON WILEY, Ph.D., *Associate Professor of French.*
A.B., 1921 (Chattanooga); A.M., 1925, Ph.D., 1930 (Harvard).

LEE MARSHALL BROOKS, Ph.D., *Associate Professor of Sociology.*
A.B., 1925 (Boston); A.M., 1926, Ph.D., 1929 (North Carolina).

BENJAMIN FRANKLIN SWALIN, Ph.D., *Associate Professor of Music.*
B.S., 1928, A.M., 1930 (Columbia); Graduate, 1930 (Institute of Musical Art, New York); Graduate, 1932 (Hochschule für Musik und Kapelmeisterschule, Vienna); Ph.D., 1932 (Vienna).

JOHN MINOR GWYNN, Ph.D., *Associate Professor of the Teaching of Latin.*
A.B., 1918, A.M., 1927 (North Carolina); Ph.D., 1935 (Yale).

OSCAR KNEFLER RICE, Ph.D., *Associate Professor of Chemistry.*
B.S., 1924, Ph.D., 1926 (California).

WILLIAM F. LANGE, M.A., *Associate Professor of Physical Education.*
A.B., 1921 (Wittenberg College); M.A., 1933 (Columbia).

DUDLEY JOHNSTONE COWDEN, Ph.D., *Associate Professor of Economics.*
A.B., 1919 (Grinnell College); A.M., 1922 (Chicago); Ph.D., 1931 (Columbia).

H. WARD FERRILL, Ph.D., *Associate Professor of Physiology.*
Ph.D., 1936 (Chicago).

WILLIAM ANDERSON OLSEN, A.M., *Associate Professor of English.*
A.B., 1923 (Cornell); A.M., 1928 (North Carolina).

WALTER REECE BERRYHILL, A.B., M.D., *Associate Professor of Medicine.*
A.B., 1921 (North Carolina); M.D., 1927 (Harvard).

SAMUEL SELDEN, A.B., *Associate Professor of Dramatic Art and Associate Director of the Carolina Playmakers.*
A.B., 1922 (Yale).

VINTON ASBURY HOYLE, Ph.D., *Associate Professor of Mathematics.*
A.B., 1924, A.M., 1925 (North Carolina); Ph.D., 1930 (Princeton).

ROBERT BOIES SHARPE, Ph.D., *Associate Professor of English.*
B.A., 1918 (Wesleyan); M.A., 1923 (Wisconsin); Ph.D., 1928 (Yale).

EARL ANDERSON SLOCUM, M.M., *Associate Professor of Music.*
B.Mus., 1931, M.M., 1936 (Michigan).

EDWIN CARLYLE MARKHAM, Ph.D., *Associate Professor of Chemistry.*
A.B., 1923 (Trinity); Ph.D., 1927 (Virginia).

JAMES WILLIAM FESLER, Ph.D., *Associate Professor of Political Science.*
A.B., 1932 (Minnesota); A.M., 1933, Ph.D., 1935 (Harvard).

ISABELLE KIRKLAND CARTER, B.S., M.S.S., *Associate Professor of Social Work.*
B.S., 1924 (Boston Univ.); M.S.S., 1925 (Smith College School of Social Work).

JOHN PERCY DALZELL, A.B., LL..B, *Associate Professor of Law.*
A.B., 1922, LL.B., 1924 (Minnesota).

ROSELLE PARKER JOHNSON, Ph.D., *Associate Professor of Latin.*
A.B., 1921 (Denison); A.M., 1925 (Michigan); Ph.D., 1931 (Illinois).

GEORGE SHERMAN LANE, Ph.D., *Associate Professor of Germanic and Comparative Linguistics.*
B.A., 1926, M.A., 1927 (Iowa); Ph.D., 1930 (Chicago).

CARL VERNON REYNOLDS, M.D., *Associate Professor of Public Health.*
M.D., 1895 (Univ. of the City of New York).

ALFRED RUSSELL, D.Sc., *Associate Professor of Organic Chemistry.*
B.S., 1926, D.Sc., 1929 (Queen's College, Ireland).

EDWARD MCGOWAN HEDGPETH, *Associate University Physician and Instructor in Surgery.*
A.B., 1927 (North Carolina); M.D., 1931 (Pennsylvania).

MARGARET JARMAN HAGOOD, Ph.D., *Research Associate and Statistical Technician in the Institute for Research in Social Science.*
A.B., 1929 (Queens College); M.A., 1930 (Emory); Ph.D., 1937 (North Carolina).

PRESTON HERSCHEL EPPS, Ph.D., *Associate Professor of Greek.*
A.B., 1915, M.A., 1917 (North Carolina); Ph.D., 1926 (Chicago).

JAMES EDWARD MAGOFFIN, Ph.D., *Associate Professor for Industrial Research.*
B.Chem., 1932, Ph.D., 1936 (Cornell).

ARNOLD KIMSEY KING, A.M., *Associate Professor of the Teaching of History.*
A.B. in Educ., 1925 (North Carolina); A.M., 1927 (Chicago).

LUCILE KELLING, A.B., B.L.S., *Associate Professor of Library Science.*
A.B., 1917 (Whitman); B.L.S., 1921 (New York State Library School).

SAMUEL THOMAS EMORY, Ph.D., *Associate Professor of Geology, and Adviser in the General College.*
A.B., 1921 (Randolph-Macon); M.A., 1931 (Columbia); Ph.D., 1939 (Chicago).

JOHN WARFIELD HUDDLE, Ph.D., *Associate Professor of Geology.*
B.S., 1929 (Northwestern); Ph.D., 1934 (Indiana).

REX SHELTON WINSLOW, Ph.D., *Associate Professor of Economics.*
A.B., 1923 (Simpson); A.M., 1929 (Illinois); Ph.D., 1936 (North Carolina).

RUSSELL TRAIN SMITH, A.B., M.Arch., *Associate Professor of Art.*
A.B. (Fine Arts), 1927, M.Arch., 1930 (Harvard).

ROBERT JAMES WHERRY, Ph.D., *Associate Professor of Psychology.*
B.S., 1925, M.A., 1927, Ph.D., 1929 (Ohio State).

RUSSELL LOWELL HOLMAN, M.D., *Associate Professor of Pathology.*
A.B., 1927 (Washington University); M.D., 1931 (Vanderbilt).

GEORGE HAROLD LAWRENCE, A.M., *Associate Professor of Social Work.*
A.B., 1919 (Columbia); A.M., 1928 (North Carolina).

HARRY KITSUN RUSSELL, Ph.D., *Associate Professor of English.*
A.B., 1923 (Davidson); A.M., 1928, Ph.D., 1931 (North Carolina).

JOSIAH COX RUSSELL, Ph.D., *Associate Professor of History.*
A.B., 1922 (Earlham); A.M., 1923, Ph.D., 1926 (Harvard).

DONALD STANLEY KLAISS, Ph.D., *Research Associate in the Institute for Research in Social Science.*
A.B., 1928 (Eureka College); B.D., Ph.D., 1934 (Chicago).

HANS HAAS, D.Ec., *Lecturer and Research Associate in Economics.*
D.Ec., 1928 (Vienna).

EMILY BIDDLE MEIGS, *Lecturer in the School of Library Science.*

GEORGE KENNETH GRANT HENRY, Ph.D., *Assistant Registrar.*
A.B., 1900, A.M., 1904 (Hamilton); Ph.D., 1914 (North Carolina).

ROLAND PRINCE MCCLAMROCH, Ph.D., *Assistant Professor of English.*
A.B., 1920, A.M., 1922, Ph.D., 1927 (North Carolina).

GLADYS ANGEL BEARD, M.A., *Assistant Professor of Health and Physical Education and Director of Physical Education for Women.*
B.S., 1923, M.A., 1930 (Teachers College, Columbia).

LOFTON LEROY GARNER, A.M., *Assistant Professor of Mathematics.*
A.B., 1925, A.M., 1927 (North Carolina).

JAMES OSLER BAILEY, Ph.D., *Assistant Professor of English.*
A.B., 1924, A.M., 1927, Ph.D., 1934 (North Carolina).

CARL HAMILTON PEGG, Ph.D., *Assistant Professor of History.*
A.B., 1927, A.M., 1927, Ph.D., 1929 (North Carolina).

CECIL JOHNSON, Ph.D., *Assistant Professor of History and Adviser in the General College.*
A.B., 1922 (Mississippi College); M.A., 1924 (Virginia); Ph.D., 1932 (Yale).

JAN PHILIP SCHINHAN, M.A., Ph.D., *Assistant Professor of Music.*
A.B., 1931, M.A., 1933 (California); Ph.D., 1937 (Vienna).

DONALD PAUL COSTELLO, Ph.D., *Assistant Professor of Zoology.*
A.B., 1930 (College of the City of Detroit); Ph.D., 1934 (Pennsylvania).

WERNER PAUL FRIEDERICH, Ph.D., *Assistant Professor of German.*
A.B., 1924 (Gymnasium, Bern); A.M., 1929, Ph.D., 1932 (Harvard).

JOSEPH EDISON ADAMS, Ph.D., *Assistant Professor of Botany.*
Ph.G., 1925, Ph.Ch., 1927 (College of Pharmacy, Columbia); B.S., 1929 (Michigan); A.M., 1932 (Columbia); Ph.D., 1935 (California).

FLOYD THEODORE SIEWERT, M.A., *Assistant Professor of Physical Education.*
B.S. in Educ., 1932 (Wittenberg); M.A., 1935 (Ohio State).

*DONALD WILLIAM MARKHAM, A.B., J.D., *Assistant Professor of Law.*
A.B., 1931 (Colgate); J.D., 1936 (North Carolina).

SHERMAN EVERETT SMITH, Ph.D., *Assistant Professor of Chemistry.*
S.B. in Ch.E., 1930 (S. Dak. State School of Mines); Ph.D., 1935 (Ohio State).

FRANKLIN CARL ERICKSON, Ph.D., *Assistant Professor of Geology.*
A.B., 1928, A.M., 1930, Ph.D., 1935 (Clark).

JOHN ELIAS TOMS, M.M., *Assistant Professor of Music.*
B.M., 1932 (Oberlin); M.M., 1936 (Michigan).

ROBERT WHITE LINKER, Ph.D., *Assistant Professor of French.*
A.B., 1925, A.M., 1928, Ph.D., 1933 (North Carolina).

EDWARD ALEXANDER CAMERON, Ph.D., *Assistant Professor of Mathematics.*
A.B. in Education, 1928, A.M., 1929, Ph.D., 1936 (North Carolina).

**HARRY ELLERBE DAVIS, A.B., *Assistant Professor of Dramatic Art and Assistant Director of the Carolina Playmakers.*
A.B., 1927 (South Carolina).

FREDERICK EDWARD COENEN, Ph.D., *Assistant Professor of German.*
A.B., 1928, A.M., 1930 (Arizona); Ph.D., 1936 (North Carolina).

ABRAM GUSTAVUS BAYROFF, Ph.D., *Assistant Professor of Psychology.*
A.B., 1927 (New York); A.M., 1929, Ph.D., 1931 (North Carolina).

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* Resigned, January 1940.

** Absent on leave, 1939-1940.

WILLIAM SMITH WELLS, Ph.D., *Assistant Professor of English and Adviser in the General College.*
A.B., 1929, A.M., 1930 (Southern California); Ph.D., 1935 (Stanford).

WALTER SPEARMAN, A.M., *Assistant Professor of Journalism.*
A.B., 1929, A.M., 1937 (North Carolina).

HERMAN WALKER SCHNELL, A.M., *Assistant Professor of Physical Education.*
A.B., 1930 (North Carolina); M.A., 1939 (Columbia).

HAROLD BENEDICT GOTAAS, M.S., *Assistant Professor of Sanitary Science.*
B.S. in C.E., 1928 (South Dakota); M.S. in C.E., 1930 (Iowa State College); M.S. in San. Eng'g., 1937 (Harvard).

WILLIAM H. IRWIN, Ph.D., *Assistant Professor of Petrology.*
B.A., 1930 (Ohio Wesleyan); M.A., 1934, Ph.D., 1937 (Columbia).

WILLIAM GARDNER MORGAN, A.B., M.D., *Assistant University Physician and Instructor in Physical Diagnosis.*
A.B., 1927 (North Carolina); M.D., 1931 (Pennsylvania).

ELWYN ARTHUR MAUCK, Ph.D., *Assistant Professor of Political Science and Research Associate in the Institute for Research in Social Science.*
A.B., 1932 (Cornell College); A.M., 1933, Ph.D., 1937 (Columbia).

RICHARD ELMER JAMERSON, M.A., *Assistant Professor of Physical Education.*
B.S. in Physical Education, 1932 (The Rice Institute); M.A. in Physical Education, 1934 (Columbia).

ELMER HALL, *Assistant Professor of Dramatic Art.*
Graduated, 1926 (Massachusetts Art School).

NATHAN JACOBSON, Ph.D., *Assistant Professor of Mathematics.*
A.B., 1930 (Alabama); Ph.D., 1934 (Princeton).

GRANVIL CHARLES KYKER, Ph.D., *Assistant Professor of Biochemistry.*
B.S., 1932 (Carson-Newman); Ph.D., 1938 (North Carolina).

ROBERT EDWARDS STONE, A.B., M.D., *Assistant University Physician and Instructor in Physical Diagnosis.*
A.B., 1931 (North Carolina); M.D., 1934 (Harvard).

RUSSELL BERRY HANCOCK LYDDANE, Ph.D., *Assistant Professor of Physics.*
Ph.D., 1938 (Johns Hopkins).

JOHN WILLIAM PARKER, A.M. in Dram. Art, *Assistant Professor of Dramatic Art.*
A.B. in Educ., 1930 (North Carolina); A.M. in Dram. Art, 1937 (North Carolina).

LOUIS OSGOOD KATTSOFF, Ph.D., *Assistant Professor of Philosophy.*
A.B., 1927, A.M., 1930, Ph.D., 1934 (Pennsylvania).

JOSEPH CARLYLE SITTERSON, Ph.D., *Assistant Professor of History.*
A.B., 1931, A.M., 1932, Ph.D., 1937 (North Carolina).

PAUL EDMONDSON SHEARIN, Ph.D., *Assistant Professor of Physics.*
A.B. in Educ., 1929, A.M., 1930 (North Carolina); Ph.D., 1934 (Ohio State).

FRANK NORMAN LOW, Ph.D., *Assistant Professor of Anatomy.*
A.B., 1932, Ph.D., 1936 (Cornell).

ALLEN THOMAS BONNELL, Ph.D., *Assistant Professor of Economics.*
B.A., 1933, M.A., 1934 (Oberlin College); Ph.D., 1937 (Illinois).

ROBERT DEVORE BOCHE, Ph.D., *Assistant Professor of Zoology.*
B.S., 1934, Ph.D., 1938 (California Institute of Technology).

HARRY DAVIS BRUNER, Ph.D., *Assistant Professor of Physiology.*
S.B., 1932, M.D., 1934, S.M., 1936 (Louisville); Ph.D., 1939 (Chicago).

WITOLD HUREWICZ, Ph.D., *Assistant Professor of Mathematics.*
Ph.D., 1926 (Vienna).

IRWIN CLARK KITCHIN, Ph.D., *Assistant Professor of Zoology.*
B.S., 1931 (Wake Forest); Ph.D., 1395 (FreiBurg).

JONATHAN WAITE WILLIAMS, Ph.D., *Assistant Professor of Organic Chemistry.*
B.S., 1930 (Baldwin-Wallace College); M.S., 1932, Ph.D., 1935 (Northwestern).

WILLIAM LOUIS ENGELS, Ph.D., *Assistant Professor of Zoology.*
B.S., 1930 (Notre Dame); Ph.D., 1937 (California).

HENRY PARKER BRANDIS, JR., *Assistant Professor of Law.*

JOHN LEROY SMITH, A.M., *Instructor in French.*
A.B., 1917, A.M., 1924 (North Carolina).

THOMAS EWELL WRIGHT, A.M., *Instructor in French.*
A.B., 1922, A.M., 1926 (North Carolina).

JOHN ERWIN CARROLL, JR., A.M., *Instructor in Romance Languages.*
B.S., 1923 (The Citadel); A.M., 1928 (North Carolina).

THOMAS HENDERSON BYRNES, B.S., M.D., *Instructor in Pathology.*
B.S., 1922 (Clemson); M.D., 1926 (Medical College of South Carolina).

GEORGE FREDERICK HORNER, Ph.D., *Instructor in English.*
B.A., 1921, M.A., 1924 (Pennsylvania State College); Ph.D., 1938 (North Carolina).

FRANCIS CLEMENT HAYES, Ph.D., *Instructor in Spanish.*
A.B., 1928 (North Carolina); M.A., 1930 (Columbia); Ph.D., 1936 (North Carolina).

WALTER DEVEREAUX CREECH, A.M., *Instructor in French.*
A.B., 1928, A.M., 1930 (North Carolina); Certificate, University of Lyons (1932), University of Bordeaux (1933).

ALFRED GARVIN ENGSTROM, A.M., *Instructor in French.*
A.B., 1933, A.M., 1935 (North Carolina).

ALBERT IRVING SUSKIN, Ph.D., *Instructor in Latin.*
A.B. in Educ., 1931, A.M., 1932, Ph.D., 1937 (North Carolina).

WILLIAM P. RICHARDSON, B.A., M.D., M.P.H., *Instructor in Public Health for Social Workers and District Health Officer.*
B.A. (Medicine), 1926 (Wake Forest); M.D., 1928 (Med. College of Va.); M.P.H., 1933 (Johns Hopkins).

EARL HORACE HARTSELL, A.M., *Instructor in English.*
A.B., 1924, A.M., 1935 (North Carolina).

WALDO FOREST MCNEIR, A.M., *Instructor in English.*
A.B., 1929 (Rice); A.M., 1932 (North Carolina).

JAMES KESTER SVENDSEN, A.M., *Instructor in English.*
A.B., 1934 (College of Charleston); A.M., 1935 (North Carolina).

GERALD GILES GRUBB, M.A., *Instructor in English.*
A.B., 1928 (Catawba College); M.A., 1934 (Wake Forest College).

G. HARRIS DAGGETT, M.A., *Instructor in English.*
A.B., 1928, A.M., 1929 (Cornell).

MICHAEL Z. RONMAN, Ed.M., *Instructor in Physical Education.*
B.S., 1935, Ed.M., 1938 (Pennsylvania State College).

JOHN VAUGHT, A.B., *Instructor in Physical Education.*
A.B., 1932 (Texas Christian).

JAMES LOGAN GODFREY, A.M., *Instructor in History.*
A.B., 1931 (Roanoke College); A.M., 1933 (North Carolina).

ROGERS DEY WHICHARD, A.M., *Instructor in French.*
A.B., 1924, A.M., 1938 (North Carolina).

CHARLES PERRY ERICKSON, B.S.,*Instructor in Physical Education.*
B.S. in Civ. Eng'g., 1931 (North Carolina).

RUTH EVELYN DODD, M.S., *Instructor in Case Work Practice.*
A.B., 1930 (N.C.C.W.); M.S., 1932 (Western Reserve).

ALBERT DOUGLAS BEACH LANGSTON, A.M., *Instructor in English.*
A.B., 1933 (The Citadel); A.M., 1934 (Claremont).

DONALD FRAZER MARTIN, A.M., *Instructor in Economics.*
A.B., 1929 (Davidson); A.M., 1931 (North Carolina).

WILLIAM DECATUR PERRY, D.Ed., *Instructor in Education and Adviser in the General College.*
A.B. in Educ., 1929 (North Carolina); D.Ed., 1937 (Teachers College, Columbia).

EDWIN SHEPARD MILLER, M.A., *Instructor in English.*
A.B., 1925 (Bethany); M.A., 1930 (Ohio State).

CLEMENT HAROLD DONOVAN, B.S., *Instructor in Economics.*
B.S., 1931 (St. Lawrence).

ELLIOTT DOW HEALY, A.M., *Instructor in French.*
B.A., 1931 (William and Mary); A.M., 1937 (North Carolina).

HALSEY MYRON MACPHEE, M.A., *Instructor in Business Psychology.*
B.S., 1930, M.A., 1932 (St. Lawrence).

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A.B., 1933, A.M., 1934 (Buffalo); Sc.D., 1937 (Johns Hopkins)

EARL WYNN, M.S., *Instructor in Dramatic Art.*
A.B., 1932 (Augustana College); M.S., 1934 (Northwestern).

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B.A., 1932 (Oberlin College); M.A., 1934, Ph.D., 1936 (Minnesota).

GEORGE E. MOWRY, Ph.D., *Instructor in History.*
A.B., 1933 (Miami); M.A., 1934, Ph.D., 1938 (Wisconsin).

ROBERT STEVENS OSBORNE, A.B., *Instructor in English.*
A.B., 1935 (Denver).

ROBERT WILLINGHAM CRUTCHFIELD, A.B., *Instructor in Commerce.*
A.B., 1930 (Wake Forest).

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ROBERT E. SMITH, A.M., *Instructor in Mathematics.*
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JAMES CYRIL DICKSON BLAINE, B.Comm., *Instructor in Economics and Commerce.*
B.Comm., 1934 (Queen's University, Canada).

DANIEL S. WOGAN, M.A., *Instructor in Spanish.*
B.A., 1929 (Louisiana State University); M.A., 1932 (Columbia).

DALMA ADOLPH BROWN, A.M., *Instructor in English.*
A.B., 1924, A.M., 1932 (North Carolina).

EDWARD FRANCIS MOYER, A.M., *Instructor in French.*
A.B., 1936, A.M., 1937 (North Carolina).

ROBERT GUILFORD LEWIS, A.B., *Instructor in French.*
A.B., 1936 (North Carolina).

ROBERT LEWIS BOLTON, JR., A.B., *Instructor in Psychology.*
A.B., 1937 (North Carolina).

ARTHUR BUTLER DUGAN, A.M., (B.Litt.(Oxon.), *Instructor in Political Science.*
A.B., 1932, A.M., 1933 (Princeton); B.Litt., 1935 (Oxford).

ORA MAE DAVIS, A.B., *Instructor in Dramatic Art.*
A.B., 1928 (South Carolina).

ROBERT BRENDAN O'CONNOR, A.B., M.D., *Instructor in Anatomy.*
A.B., 1935 (Boston College); M.D., 1939 (Harvard Medical School).

AUGUSTUS TAYLOR MILLER, JR., Ph.D., *Instructor in Physiology.*
B.S., 1931, M.S., 1933 (Emory); Ph.D., 1939 (Michigan).

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B.S., 1937, M.S., 1938 (Virginia).

JOSEPH ROBINSON CLAIR, M.S., *Instructor in Geology.*
A.B., 1933 (Kansas); M.S., 1938 (Missouri School of Mines and Metallurgy).

NATHANIEL HARDING HENRY, A.M., *Instructor in English.*
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JOE HORRELL, M.A., *Instructor in English.*
A.B., 1936 (Murray State Teachers College); M.A., 1937 (Vanderbilt).

WILLIAM PEERY, A.M., *Instructor in English.*
A.B., 1931 (College of Wooster); A.M., 1937 (North Carolina).

HENRY WHITTINGTON SAMS, M.A., *Instructor in English.*
B.A., 1933, M.A., 1935 (Oberlin).

JOHN BYRON WILSON, M.A., *Instructor in English.*
A.B., 1930 (Ouachita College); M.A., 1936 (South Carolina).

OLIN TERRILL MOUZON, B.S., *Instructor and Research Assistant in Economics.*
B.S. in Commerce, 1933 (Southern Methodist).

EDWARD ARMOND BRECHT, Ph.D., *Instructor in Pharmacy.*
B.S. in Pharmacy, 1933, M.S., 1934, Ph.D., 1939 (Minnesota).

ARTHUR GWYNN GRIFFIN, A.M., *Instructor in Economics.*
A.B., 1921, A.M., 1923 (North Carolina).

CAREY DEWITT ELDRIDGE, A.M., *Instructor in French.*
B.A., 1935 (Virginia); A.M., 1937 (North Carolina).

FRANK MARION DUFFEY, A.B., *Instructor in Spanish.*
A.B., 1938 (Miami).

JAMES WOODROW HASSELL, A.M., *Instructor in French.*
A.B., 1936 (Davidson); A.M., 1937 (North Carolina).

ARNOLD BORDEN, A.B., *Instructor in Art.*
A.B., 1937 (North Carolina).

FRANCIS CONNOR COOK, M.A., *Instructor in English.*
B.A., M.A., 1932 (Texas).

RICHARD ARCHER EDWARDS, Ph.D., *Instructor in Geology.*
B.S. in Geology, 1931 (Michigan); M.A., 1933 (Cincinnati); Ph.D., 1938 (North Carolina).

OGDEN TWETO, A.M., *Instructor in Geology.*
A.B. in Geology, 1934, A.M. in Geology, 1937 (Montana State).

WILLIAM THEODORE GRUHN, M.A., *Instructor in Education.*
B.S. in Education, 1926 (Northern State Teachers College); M.A., 1933 (Minnesota).

DAVID FRANKLIN McDOWELL, M.A., *Instructor in Spanish.*
A.B., 1924, M.A., 1928 (Florida).

HENRY BARTOS, A.B., *Instructor in Physical Education.*
A.B., 1939 (North Carolina).

CLARENCE HAGEN, S.B., *Instructor in Psychology.*
S.B., 1939 (Harvard).

WILLIAM DANIEL, A.B., *Instructor in Psychology.*
A.B., 1938 (Antioch College).

JOHN CALDWELL McCAMPBELL, S.B., *Instructor in Geophysics.*
S.B. in Geol., 1934 (North Carolina).

JAMES MUIR WALLER, LL.B., *Instructor in Business Law.*
B.A., 1922, M.A., 1927 (Vanderbilt); LL.B., 1924 (Yale).

FREDERIC MEYERS, A.M., *Instructor in Economics.*
A.B., 1938, A.M., 1939 (North Carolina).

John Joseph Guilbeau, M.A., *Instructor in Spanish.*
B.A., 1935, M.A., 1936 (Louisiana State).

William Green Burks, M.A. *Instructor in Spanish.*
A.B., 1928 (Mississippi); M.A., 1935 (Alabama).

George Waverly Poland, Jr., A.B., *Instructor in Spanish.*
A.B., 1936 (William and Mary).

Nestore DiCostanzo, A.B., *Technician in Physics.*
A.B., 1935 (North Carolina).

TEACHING FELLOWS, 1939-1940

Hiden Toy Cox, A.M.	Botany
Harvey Adolphus Bernhardt, A.B.	Chemistry
Richard Lee Kenyon, A.B.	Chemistry
Luther Bynum Lockhart, Jr., A.B.	Chemistry
John Burrell Oliver, A.B.	Classics
William Harry Joubert, M.A.	Economics and Commerce
Leonard James Arrington, B.A.	Economics and Commerce
Amos James Parkhurst, M.Ed.	Education
George Harding Foster, A.M.	English
Alton Chester Morris, M.A.	English
George Parker Winship, Jr., A.B.	English
Walter Scott West, M.S.	Geology
Albert Lake Lancaster, B.A.	German
James Miller Grimes, A.M.	History
Adolf Frank Meisen, M.A.	History
William Hoggatt Price, B.A.	History
Emmet Sams Ashcraft, A.M.	Mathematics
Richard James Wells, M.Sc.	Mathematics
Daniel Russell McMillan, M.S.	Physics
Joseph Wright Reid, Jr., M.A.	Political Science
Robert Clayton Rogers, M.S.	Psychology
*Jacques Hardré, B.A.	Romance Languages
**William Ross Lansberg, A.B.	Romance Languages
Don H. Walther, A.B.	Romance Languages
Andrew Henry Yarrow	Romance Languages
Gordon Williams Lovejoy, M.A.	Sociology
Quillan Rufus Murphy, B.S.	Zoology

RESEARCH ASSOCIATE, 1939-1940

Mary Claire Engstrom, Ph.D.	English

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* Resigned October 15, 1939.

** Appointed October 15, 1939.

STUDENT ASSISTANTS, 1939-1940

Meyer Harvey Rolnick, M.S.	Bacteriology
Albert Barron Sample, A.B.	Bio-chemistry
Mary Gwendolyn Burton, A.B.	Botany
George Andrew Christenberry, A.M.	Botany
James Arthur Doubles, A.M.	Botany
Lindsay Shepherd Olive, A.B.	Botany
Harold Eugene Orr, A.B.	Botany
Albert Ernest Radford, B.S.	Botany
Hampton Irene Wilburn, A.B.	Botany
Arthur William Ziegler, A.B.	Botany
George Bergen Butler, B.A.	Chemistry
David Lewis Cook, A.B.	Chemistry
Archie Herman Germany, B.A.	Chemistry
Hugh Clifton Gulledge, A.B.	Chemistry
William Bernard Happoldt, B.S.	Chemistry
Edward Anthony Kaczka, B.S.	Chemistry
John Alexander Krynitsky, B.S.	Chemistry
James Horace Langston, A.M.	Chemistry
Victor Edward Lucas, B.A.	Chemistry
William Thomas Rainey, B.S.	Chemistry
Henry Christian Schultz, B.S.	Chemistry
John C. Speck, B.S.	Chemistry
Charles Jackson Starnes, B.S.	Chemistry
Robert Melvin Thomas, M.S.	Chemistry
Littleton Upshur, Jr., B.S.	Chemistry
Locke White, Jr., B.S.	Chemistry
William Francis Guess, B.A.	Dramatic Art
Catherine Mallory, A.B.	Dramatic Art
Frederick George Walsh, B.S.	Dramatic Art
Lawrence Howard Wismer, A.B.	Dramatic Art
Carroll Chadwick Ballard, A.B.	Economics and Commerce
Gerald Alton Brown, M.A.	Economics and Commerce
James Sloan Currie, B.S.	Economics and Commerce
Elizabeth Whitbeck Donovan, A.M.	Economics and Commerce
Edna May Douglas, A.M.	Economics and Commerce
John Wadsworth Gunter, A.M.	Economics and Commerce
Langston Thacker Hawley, M.S.	Economics and Commerce
John Steele Henderson, A.B.	Economics and Commerce
Roy Foskett Hutchinson, A.B.	Economics and Commerce
Charles Eugene McIntosh, Jr., S.B.	Economics and Commerce
Robert Lee Stallings, Jr., B.S.	Economics and Commerce
David Parker Bennett, A.B.	Education
James Russell McDonald, A.B.	Education
Graham Everitt Marshall, B.S.	Education
Elizabeth Hartley Rusk, M.A.	Education

Walter Desmond Booth, M.A.	English
William Bracy, A.M.	English
Nicholas Teynac Joost, Jr., A.M.	English
Robert Mayer Lumiansky, M.A.	English
Walter Lauren Moses, A.M.	English
Cecil LeRoy Sanford, A.B.	English
Robert Marsden Wallace, A.M.	English
Samuel David Broadhurst, S.B.	Geology
John Caldwell McCampbell, M.S.	Geology
Romeo Jarrett Martin, B.S.	Geology
Alfred Walter Beerbaum, B.A.	German
James Clarke Cornette, Jr., M.A.	German
Robert Beverly Nance, A.B.	German
John Barber Read, A.M.	German
John Ozment Reynolds, B.S.	Mathematics
Robert Edward Smith, A.M.	Mathematics
William Klenz, B.M.	Music
Herbert Stanton Livingston, Mus.B.	Music
Irvin Edward Zimmermann, Jr., B.M.	Music
Arnold Breckenridge, A.B.	Pharmacology
Leo Andrew Lorek	Pharmacy
Charles Daniel McFalls	Pharmacy
Elliott Powell Rigsby, B.S.	Pharmacy
Leon Wriston Smith	Pharmacy
Joseph Shafter Brock, B.S.	Physics
Thomas Nicholas Gautier, Jr., M.S.	Physics
Fred Lane Horton, B.S.	Physics
Everette Irl Howell, M.S.	Physics
Delford Armstrong McGraw, M.S.	Physics
Turner Eugene Pardue, S.B.	Physics
Melvin Clyde Hughes, M.A.	Political Science
Winifred Lane Black, A.B.	Psychology
Mildred Corinna Mendenhall, Ph.D.	Psychology
Roy Branch Barham, A.B.	Sociology
Willis Anderson Sutton, Jr., A.B.	Sociology
Trezevant Player Yeatman, A.B.	Sociology
Jerry Harrison Allen, A.B.	Zoology
Lytt Irvine Gardner, A.B.	Zoology
William Hyde Meroney III	Zoology
Carlos James Ross	Zoology
Frances Louise Spence, A.B.	Zoology

RESEARCH ASSISTANTS

Alma Holland, A.B., *Research Assistant in Botany.*

Frank Thomas Miller, Jr., S.B.Comm., A.B., *Research Assistant in Law.*

ELIZABETH WARREN SHEWMAKE, A.B., *Research Assistant in Law.*

NATHANIEL GRAVES SIMS, B.A., *Research Assistant in Law.*

LAWRENCE FOUSHEE LONDON, Ph.D., *Research Assistant in the Library.*

RUTH BLACKWELDER, A.M., *Junior Research Assistant in the Institute for Research in Social Science.*

JAMES ROY CALDWELL, JR., A.M., *Junior Research Assistant in the Institute for Research in Social Science.*

ALICE DAVIS, M.S., *Junior Research Assistant in the Institute for Research in Social Science.*

WILLIAM MONROE GEER, A.M., *Junior Research Assistant in the Institute for Research in Social Science.*

SELZ MAYO, M.S., *Junior Research Assistant in the Institute for Research in Social Science.*

ALMA JOSLYN WHIFFEN, M.A., *Carnegie Research Assistant in Botany.*

ALBERT CHARLES CORNSWEET, Ph.B., *Research Assistant in Psychology.*

STANDING COMMITTEES OF THE FACULTY

ADMISSION AND RECORDS. Professors T. J. Wilson, Jr., Chairman, Beard, Bradshaw, Carroll, A. W. Hobbs, Husbands, Secretary, Spruill.

ADVISORY (*elected with terms expiring the year indicated*). 1940: Professors Dashiell, Harrer, Bost; 1941: A. W. Hobbs, Newsome, VanHecke; 1942: R. E. Coker, Odum, G. C. Taylor.

ARCHAEOLOGICAL MATERIALS. Professors Costello, Hamilton, Harland, Prouty, P. Russell, Col. J. H. Pratt.

ART OBJECTS. Professors R. T. Smith, Chairman, McKie, R. E. Coker.

ATHLETICS. Professors A. W. Hobbs, Chairman; Baity, H. D. Wolf, Cornell.

AUDITING OF THE PUBLIC FUNDS OF STUDENT ORGANIZATIONS. Professors Bradshaw, Peacock, Mr. Rogerson, Student Members.

CHAPEL. Professors Bradshaw, Chairman; Carroll, Epps, Meyer, Mr. Comer.

COMPILATION OF UNIVERSITY REGULATIONS. Professors Howell, Chairman; Jenkins, Olsen.

COMPREHENSIVE EXAMINATIONS. Professors Lasley, Chairman; Jordan, Specialist; Robson, Social Sciences; Wherry, Natural Sciences; Cowden, Commerce; Lyons, Humanities; Deans Hobbs, Carroll.

COOPERATION WITH ALUMNI ASSOCIATION. Professors Bost, Bradshaw, R. E. Coker, Dey, McClamroch, Newsome, Olsen, Phillips, Pierson, Ruark, Woosley.

DEBATES. Professors Coates, McKie, Williams.

ENDOWED SCHOLARSHIPS. Professors Carroll, Chairman; Bost, Bradshaw, A. W. Hobbs, Spruill, T. J. Wilson, Jr., Messrs. Saunders, Comer, Rogerson, Lanier, Armstrong, J. A. Williams.

ENGLISH COMPOSITION. Professors Totten, Chairman; Bailey, Secretary; N. B. Adams, R. W. Adams, Bagby, Beard, Bost, Coffin, Coffman, Farrar, Fussler, Haydon, Cecil Johnson, McCall, Prouty, W. B. Sanders, Spruill, Thrall.

EXECUTIVE (*elected with terms expiring the year indicated*). 1940: Robson, H. D. Wolf; 1941: McKinney, Winslow; 1942: Howell, Pegg.

FACT FINDING. Professors Totten, Bagby, Bradshaw, Mackie, Spruill, Stoudemire.

FACULTY ADVISERS OF GENERAL COLLEGE. Professors Spruill, Chairman; Hill, Cecil Johnson, Phillips, S. G. Sanders, Wells, McKie, Howell, Edmister, Emory; Doctors Perry, Elder; Mr. Armstrong.

FACULTY CLUB. Professors Olsen, Chairman; J. M Lear, Heer, R. W. Linker.

FACULTY LIVING CONDITIONS. Professors Carroll, Chairman; Heer, S. H. Hobbs, M. D. Taylor.

FRATERNITIES. Professors Lyons, Chairman; Bradshaw, Carroll, Peacock, Stoudemire, T. J. Wilson, Jr.

GROUNDS, BUILDINGS, FIELDS, FORESTS, AND LAKE AREA. Professors W. C. Coker, Chairman; Baity, Booker, MacNider, Odum, R. T. Smith, Wager.

INSTRUCTION. Professors A. W. Hobbs, Chairman; Bradshaw, Carroll, R. E. Coker, Dey, Newsome, Pierson, Spruill.

LOAN FUNDS. Professors Bradshaw, Chairman; Carroll, Messrs. Rogerson, Saunders, Lanier, Armstrong, J. A. Williams.

MCNAIR LECTURES. Professors Harrer, Chairman; Henderson, MacNider, Bradshaw, Beale.

PUBLIC OCCASIONS AND CELEBRATIONS. Professors Bradshaw, Dey, Hamilton, Haydon, Henderson, Knight, Koch, Messrs. Madry, Rogerson, Saunders.

PUBLIC RELATIONS. Messrs. Saunders, Chairman, Armstrong, Comer, Fetzer, Grumman, Madry, Professors Bradshaw, Phillips.

RADIO ADVISORY BOARD. Mr. Grumman, Chairman; Professors Haydon, Koch, Newsome, Olsen, Ruark, Messrs. Madry, McDonald, Saunders; Student Representatives, Harry Gatton, Martin Harmon, Walter Kleeman, Wieder Sievers.

REGISTRATION. Dean Wilson, the Undergraduate Deans, Messrs. Husbands, Griffin.

REGULATION OF STUDENT DANCES. Professors Mackie, Chairman; H. K. Russell, Schnell.

RHODES SCHOLARSHIPS. Professors A. W. Hobbs, Chairman; Bradshaw, Spruill, Thomas, T. J. Wilson, Jr. Mr. Comer.

SELF-HELP. Mr. Comer, Chairman; Professors Bradshaw, Carroll, A. W. Hobbs, J. B. Linker, Spruill, White, Messrs. Burch, G. M. Hill, Lanier, Rogerson, Saunders, Armstrong, J. A. Williams, Cook.

STUDENT ENTERTAINMENT. Professors Harland, Chairman; Haydon, Koch, with student representatives of the College of Arts and Sciences and the School of Commerce.

STUDENT HEALTH AND PHYSICAL EDUCATION. Professors Cornwell, Chairman; Berryhill, Bradshaw, Fetzer, Spruill.

SULLIVAN AWARD. Professors Bradshaw, A. W. Hobbs, House.

WEIL LECTURES. Professors Carroll, Chairman; Heath, Robson, Vance, Wettach.

PART TWO

GENERAL INFORMATION

THE UNIVERSITY

FOUNDATION AND GOVERNMENT

The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University opened its doors in January, 1795.

By the Constitution adopted in 1868 the General Assembly has "power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchises and endowments thereof in anywise granted to or conferred upon the trustees of said University; and the General Assembly may make such provisions, laws and regulations, from time to time, as may be necessary and expedient for the maintenance and management of said University." The Governor of the state is *ex officio* President of the Board of Trustees.

The same Constitution, in connection with "Benefits of the University," further states: "The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also, that all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University."

ORGANIZATION AND DEGREES

The University is organized into a General College (which gives the general academic work of the first two years), a College of Arts and Sciences, and six schools which have jurisdiction over degrees as shown below.

THE COLLEGE OF ARTS AND SCIENCES
- Bachelor of Arts
- Bachelor of Arts in Journalism
- Bachelor of Science in Chemistry
- Bachelor of Science in Geology
- Bachelor of Science in Physics
- Bachelor of Arts and Laws (with the School of Law)
- Bachelor of Science in Medicine (with the School of Medicine)

THE SCHOOL OF COMMERCE
- Bachelor of Science in Commerce
- Bachelor of Science in Commerce and Laws (with the School of Law)

THE GRADUATE SCHOOL
- Master of Arts
- Master of Arts in Education
- Master of Science
- Master of Science in Social Work
- Master of Education
- Master of Public Health
- Doctor of Public Health
- Doctor of Philosophy

THE SCHOOL OF LAW
- Bachelor of Laws
- Doctor of Law
- Bachelor of Arts and Laws (see above)
- Bachelor of Science in Commerce and Laws (see above)

THE SCHOOL OF MEDICINE
- Bachelor of Science in Medicine (see above)

THE SCHOOL OF PHARMACY
- Bachelor of Science in Pharmacy

THE SCHOOL OF LIBRARY SCIENCE
- Bachelor of Arts in Library Science

In the Summer Session are offered many courses for which regular University credit is allowed, including special courses designed primarily for the teachers of the State. Practically all the work offered is of collegiate grade and may be counted towards some degree from the University.

There is also a Division of Extension through which the services of the University Faculty and certain material equipment of the University are made available to the people of the State generally.

THE GENERAL FACULTY OF THE UNIVERSITY

By action of the Trustees of the University the General Faculty includes all members of the University's teaching force above the rank of Instructor and all general administrative officers of the institution. In the President and the General Faculty is vested final authority (under the Trustees) over all matters of University policy and activity. Under the General Faculty the Colleges and the Schools have separate Faculties and Administrative Boards, which have final authority over matters pertaining solely to such Colleges or Schools.

SCHOLARSHIPS AND OTHER FINANCIAL ASSISTANCE

There are certain endowed scholarships available for students who can show good attainments in scholarship along with definite financial need. Information in regard to them can be secured by writing to Dean D. D. Carroll.

The University has a sum of money which may be loaned to worthy students who can show definite need. Information can be secured from Mr. J. A. Williams.

There are a certain number of positions involving various kinds of work which enable some students to earn a part of their expenses. Information about this can be secured from Mr. Edwin S. Lanier.

Students should not come to the University unless they are able to pay their bills immediately upon registration. All arrangements about payment of bills must be made in advance of registration, whether by way of loans, scholarships, acceptance of notes, or in any other manner.

THE COLLEGE YEAR

The college year is divided into fall, winter, and spring quarters of approximately twelve weeks each, and a summer session divided into two terms of about six weeks each. The School of Law divides its work into two terms instead of three quarters; it conducts a summer session also coinciding in extent with the summer session in academic subjects. There is a Thanksgiving recess of three days, a Christmas recess of approximately two weeks, and a spring recess of about four days.

RELIGIOUS INFLUENCES

Through the cooperation of all concerned, religious influences of unusually effective character surround the University student. Chapel exercises are held in Memorial Hall at ten-thirty o'clock. The Young Men's Christian Association, to which the University makes annual contributions, is of great value in the life of the campus.

The larger denominations of the state have erected at Chapel Hill modern and adequate church plants. The Chapel Hill churches are manned by an effective and cooperative group of pastors, are all located in close proximity to the campus, and play a very large and genuine part in the life of the University.

DISCIPLINE

The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty, or for misconduct. See also under the heading of Student Government.

PHYSICAL EDUCATION

Hearty encouragement is given to athletic sports and to all kinds of physical culture.

In addition to inter-collegiate athletics the University fosters an unusually extensive program of intra-mural sports, involving over half the undergraduates in a wide variety of games. Complete schedules are played in a variety of individual and team activities, including tennis, golf, fencing, table tennis, bowling, boxing, wrestling, track and field, quoits, tag-football, indoor and outdoor baseball, basketball, and soccer. Intra-mural teams offer every interested student opportunity for participation in some interesting and healthful form of competition with his fellows, for learning team work and good sportsmanship.

Physical education is required of all freshmen in the afternoons twice each week for the year. A course in hygiene is required of all freshmen once each week for the year.

A thorough physical examination is given to students at the time of entrance. All students are classified on the basis of the examination and effort is made to adapt the program to the individual's particular needs. Particular attention is given to various remediable defects and individual programs are built with the idea of improving or correcting the existing condition.

It is hoped that all students can develop sufficient skill in various recreational activities that continued participation in the activity will result.

The program of intercollegiate athletics includes a great variety of seasonal competitive games with the idea of promoting maximum participation by members of the student body.

More advanced courses in physical education are offered to upperclassmen who plan to become athletic directors or coaches.

The physical education of women students is under the charge of Mrs. Gladys Angel Beard as Director and a group of administrative officers as a board. Each entering woman student is carefully examined and tested for the purpose of discovering defects and correcting them. Arrangement for this examination is made when the student consults the Adviser to Women. Vigorous exercise and recreation are provided by tennis, archery, dancing, track work, basketball, and hockey; and inter-class competition is encouraged.

MEDICAL ATTENTION

In order to provide proper attention for the student during sickness the University employs four full time physicians and maintains a well appointed infirmary. The infirmary is equipped with all necessary conveniences and comforts, and with a modern X-ray unit and laboratory for diagnostic purposes under the direction of a full time technician. It is under the immediate supervision of the University Physician, and is provided with four experienced nurses. At the discretion of the University Physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made. But should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon), recommended by the attending physician and approved by the parent or guardian, be necessary, the student will be required to pay for such service.

THE DIVISION OF ADMISSIONS AND RECORDS

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
Thomas James Wilson, Jr., Ph.D., *Dean of Admissions*

THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs, Ph.D.
Dudley deWitt Carroll, M.A.
Francis Foster Bradshaw, Ph.D.
Ben Husbands, A.B., *Secretary*
Robert Burton House, A.M., LL.D.
Corydon Perry Spruill, Jr., A.B., B.Litt. (Oxon.)

GENERAL STATEMENT

After the conclusion of the World War the University found it necessary in many ways to revise and modify previously existing modes of action. In March, 1920, the University Advisory Committee proposed a more definite organization of separate schools or faculties and the establishment of administrative boards for these separate schools. The proposals were adopted.

In 1930 developments subsequent to the above action having led to practices not in accord with the plans adopted in 1920, the Advisory Committee and the Administrative Officers of the University proposed to the General Faculty new regulations which were adopted.

By these regulations the Special Faculties of Law, Medicine, Pharmacy, Engineering, the Graduate School, and the Undergraduate Faculty were definitely provided and their jurisdictions, powers, and duties were defined. At the same time were settled the status, powers, and duties of the Administrative Boards of all schools and divisions. See Catalogue for 1930-1931, page 30 and following. Schools organized subsequently have similar arrangements.

The division named at the head of this section was organized in 1931 for the purposes indicated by its title in order still further to organize and make more effective existing agencies.

In the matter of admissions it is expected that the Administrative Board of this division will at its regular and special meetings continually keep a live and constructive interest in the establishment of policies and plans for improving the quality of our student body.

THE DIVISION OF STUDENT WELFARE

GENERAL STATEMENT

The Division of Student Welfare was established to coordinate and promote the work of all University agencies and organizations affecting the welfare of students. Its work is understood to embrace all University relationships with students other than formal instruction. These relationships all have educational significance and are recognized as an integral part of the educational program of the University.

In recent years of University growth many agencies have come into existence to promote in various ways the wholesome growth of students and student life. To relate most effectively the respective functions of such agencies and to focus the entire guidance resources of the institution on the particular needs of students both as individuals and as groups is the responsibility of this division through its Administrative Board.

*THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs
Mrs. Marvin Hendrix Stacy
Dudley deWitt Carroll
Robert Burton House
John Coriden Lyons
English Bagby
Harry Fulcher Comer
Walter Reece Berryhill
Robert Baker Lawson
Robert Allison Fetzer
J. Maryon Saunders
William Decatur Perry
Harry Wolven Crane
Harry DeMerle Wolf
James Allen Williams
Robert Nathaniel Magill
Livingston Bertram Rogerson
Raymond B. Wolf
Edward McGowan Hedgpeth
Ernest Lloyd Mackie
Harl Roy Douglass
Samuel William John Welch
Frederick Henry Weaver
Oliver Kelly Cornwell
Harold Diedrich Meyer
Corydon Perry Spruill
Edwin Sidney Lanier
Francis Foster Bradshaw, *Chairman*

Because of the intimate relationship of this division to student life, there is an Advisory Board composed of students appointed annually by the President of the University on the joint nomination of the President of the Student Body and the Chairman of the Board. The following were appointed for 1939-1940:

Martin Luther Harmon
Louis Stuart Ficklen
Melville Fort Corbett
James Evans Davis
Richard Campbell Worley
Edward Townsend Moore
Louise Huske Jordan
John Fletcher Vincent

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* The President and the Dean of Admissions are *ex officio* members of this Administrative Board.

STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and administrative. These functions are exercised by the Student Council and the Class Honor Councils.

THE STUDENT COUNCIL, 1939-1940

JAMES EVANS DAVIS, *Chairman, ex officio*
JACK PHIFER FAIRLEY, *Vice-Chairman*
JOHN MALCOLM NISBET, *Secretary-Treasurer*

ALFRED NIXON COSTNER
WILLIAM ARCHIE DEES, JR.
HIRAM LEE LARGE, JR.
WILLIAM POPE LYON
WILLIAM T. MARTIN, JR.
DAVID JAMES MORRISON
CHARLES EDWARD WOOD III

The Student Council is composed of eleven members, as follows: Representatives of the three upper academic classes, one representative from each of the professional schools of Law, Medicine, and Pharmacy, two hold-over members elected by the members of the previous Council, and the President, Vice-President, and Secretary-Treasurer of the Student Body. The members elected on the Council must be chosen from among those who have served on the Council before. The President of the Student Body is *ex officio* Chairman of the Council.

Student government, in so far as it is disciplinary, is based upon the honor principle. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct. The Student Council is the executive expression of the honor principle. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is thought by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this thought. It examines the matter, finds the facts in the case, and decides upon the course to be pursued. If the student is found guilty of conduct unworthy of a University man, he is promptly required to withdraw from the University. Among the offenses usually requiring withdrawal are drunkenness, cheating, and gambling.

In each of the four undergraduate classes there is a special Class Honor Council of seven men elected by the class. These honor councils are especially responsible for educating the class on the honor system and trying cases of alleged violation. The class council is responsible only for establishing the fact of guilt, the sentence being determined by the Student Council.

THE UNIVERSITY LIBRARY

Carl Milton White, A.B., B.S. in L.S., Ph.D., *Librarian*

Cornelia Spencer Love, A.B., B.L.S., *Chief, Order Department*

Georgia Hicks Faison, A.B., B.L.S., *Chief, Reference Department*

Elizabeth Hardy Thompson, A.B., B.L.S., *Chief, Catalogue Department*

Mary Lindsay Thornton, A.B., *Chief, North Carolina Collection*

Alma Stone Skaggs, A.B., A.B. in L.S., *Chief, Periodical Department*

Olan Victor Cook, A.B., A.B. in L.S., *Chief, Circulation Department*

Nellie Roberson, A.B., *Chief, Library Extension Department*

Giles Fremont Shepherd, Jr., A.B., A.B. in L.S., *Chief Documents Department*

The University Library contains more than 375,000 volumes. It is housed in a modern library building completed in 1929. The seating capacity is one thousand readers and the present book capacity is approximately 450,000 volumes. In addition to the resources of the general reference rooms, the Library has a collection of 70,437 bound periodicals, and 4,367 current periodicals, newspapers, and transactions of various societies are currently received, continuing and supplementing the bound sets.

Special collections of importance include the following: Hanes Foundation for the Study of the Origin and Development of the Book, the Southern Historical Collection of 1,500,000 manuscripts, the North Carolina room with 60,000 items relating to this state, the Rural Social-Economics collection, the Archibald Henderson Collection of American Drama, the Spanish drama collection of 12,000 titles, and a collection on the Negro. The Library has an extensive bibliographical division and contains a depository card catalogue of the Library of Congress, the John Crerar Library, and the Duke University Library, and partial files of the printed catalogue cards of Harvard College and of the University of Chicago. There is a public documents collection, federal, state, local, and foreign, of 192,500 pieces.

Library funds are expended under the direction of the Librarian, the Administrative Board of the Library and Library School, and professors in charge of departments. The annual addition of books from purchase, donations, and exchanges is approximately 20,000 volumes.

There are seminar rooms in the Library to facilitate advanced work in English, German, Greek and Latin, Romance Literatures, and History. For instructors and graduate students 162 individual carrells are available in the bookstacks.

There is a total of twelve departmental libraries. Six of these are in charge of regular attendants: commerce, Phillips Hall, law, geology, medicine and public health, and rural social-economics. The others, botany, chemistry, library science, music, pharmacy, and zoology, are under the supervision of the instructors in those departments and the librarian.

THE UNIVERSITY OF NORTH CAROLINA PRESS

William Terry Couch, *Director*

BOARD OF GOVERNORS

William Chambers Coker, *Chairman*

Robert Burton House
Howard Washington Odum
George Coffin Taylor
Frank Porter Graham
Russell Marvin Grumman
Robert Hasley Wettach
Gustave Adolphus Harrer
Rupert Bayless Vance
Charles Walter Tillett, Jr.
Henry McGilbert Wagstaff
Corydon Perry Spruill, Jr.
Charles Baskerville Robson
Leslie Weil
Ralph Walton Bost

The University of North Carolina Press was incorporated on June 12, 1922. The objects for which it was established are: (1) to publish periodicals devoted to the advancement of learning and produced at the University by or under the direction of the Faculty; (2) to publish catalogues, bulletins, and other documents pertaining to the University and its various schools and departments; and (3) to promote generally, by publishing deserving works, the advancement of arts and sciences and the development of literature.

The Press was established upon the authority of the Board of Trustees of the University, is a non-stock corporation, is financed in part by the University, and its policies are determined by a Board of Governors drawn from the Faculty and Board of Trustees.

The Press has published twenty-five to thirty books per annum during recent years. The Press also publishes the following periodicals: *The Journal of the Elisha Mitchell Scientific Society; Studies in Philology; The James Sprunt Historical Studies; The High School Journal; Social Forces; The North Carolina Law Review; The University of North Carolina Extension Bulletin; The University News Letter; The University of North Carolina Record.*

The Press office is located in the newly-renovated Bynum Hall. The agents of the Press for Great Britain and the British Dominions are respectively *The Oxford University Press,* London, for books; *The Cambridge University Press,* London, for periodicals; in Japan *Maruzen-Kabushiki-Kaisha,* Tokyo; in China *Edward Evans & Sons, Ltd.;* in Holland *Dekker en Nordemann's Wetenschappelijke Boekhandel,* Amsterdam; in Europe various booksellers. A complete list of publications issued by the Press will be supplied to any address on request.

THE INSTITUTE FOR RESEARCH IN SOCIAL SCIENCE

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
Howard Washington Odum, Ph.D., LL.D., Litt.D., *Director*
Katharine Jocher, Ph.D., *Assistant Director*

BOARD OF GOVERNORS

Frank Porter Graham
Dudley DeWitt Carroll
Margaret Messenger Edwards
Arthur Melville Jordan
Joseph Gregoire deRoulhac Hamilton
Albert Ray Newsome
Howard Washington Odum
William Whatley Pierson
Maurice Taylor VanHecke
Carl Milton White

RESEARCH STAFF

Ernest Rutherford Groves, A.B., B.D., *Research Professor*
Rupert Bayless Vance, Ph.D., LL.D., *Research Professor*
Harriet Laura Herring, A.M., *Research Associate*
Katharine Jocher, Ph.D., *Research Associate*
*Guy Benton Johnson, Ph.D., *Research Associate*
Margaret Jarman Hagood, Ph.D., *Research Associate*
Elwyn Arthur Mauck, Ph.D., *Research Associcate*
Donald Stanley Klaiss, Ph.D., *Research Associate*
Ruth Blackwelder, A.M., *Junior Research Assistant*
James Roy Caldwell, Jr., A.M., *Junior Research Assistant*
Alice Davis, M.S., *Junior Research Assistant*
William Monroe Geer, A.M., *Junior Research Assistant*
Selz Mayo, M.S., *Junior Research Assistant*
Nadia Danilevsky, Graduate, University of Moscow, *Statistical Assistant*

The Institute for Research in Social Science was organized in 1924 with the appointment by President Harry Woodburn Chase of a Board of Governors composed of representatives from the fields of history, government, economics, sociology, rural social-economics, publications and library administration, and educational psychology. This Board being flexible, new members being recommended by the Board of Governors and appointed by the President, was later augmented to include additional representatives from history, political science, and economics, to which was added the Dean of the School of Law. In 1933, after the organization of the Consolidated University to include the University at Chapel Hill, the Woman's College at Greensboro, and the State College of Agriculture and Engineering at

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*Absent on leave. 1939-1940.

Raleigh, representatives of the last two institutions were added to the Board and began functioning in their capacity of general planning and approval of research programs and budgets.

The present plan of organization of the Institute provides for a Director, an Assistant Director with an assignment as Research Associate, and a Central Office with an adequate clerical staff through which assistance is rendered to Institute members and faculty members and through which a central coordinating agency has been set up. The research staff of the Institute is composed of full-time research professors, research associates, and research assistants, in addition to part-time assignments made to individuals in accordance with the research programs adopted and followed out from year to year.

The functions of the Institute are several. First, to encourage and stimulate research in the social sciences at the University of North Carolina, to discover and develop research personnel, and in particular to map out and plan for a research program through which facilities may be more abundant and coordination and integration more articulate. A second is to serve as a training center for research personnel and teachers within the region which the Institute serves. A third function has been to focus upon regional problems and regional research and to serve as a center for cooperating with other agencies in the field. In the pursuance of these larger purposes there is the specific function of the Board of Governors to plan, legislate, and give general direction to the Institute program while another routine function is assigned to the Director and Assistant Director of the Institute, who, with the President of the University, are authorized to carry on details of administration, to supervise any general research activities and projects coming under the direction of the Institute, and to cooperate with particular faculty members or other directors of specific research projects.

The relation of the Institute to the University is more nearly analogous to the schools and major divisions of the institution than to any other similar organization. Its research professors and research associates have the rank of professors and associate professors in the University with all their privileges and obligations, but with the general allocation of two-thirds time devoted to research with one-third time devoted to teaching. The principal sources of financial support have been the Laura Spelman Rockefeller Memorial, the Rockefeller Foundation, and the General Education Board, with additional funds from other agencies and individuals, with specially allotted funds on occasion, and from the University. There have been substantial returns from the Institute's publications of which more than 70,000 copies have been distributed.

Types of research aid have extended over a wide range. Due to a "planned" research program for a particular state and regional setting with particular opportunities, one of the first needs was to provide research specialists for certain fields, to give them desirable status, and to provide adequate assistance for them. Closely correlated with this, a second type of research aid is that of research assistants, on annual appointment, whose function it is to aid either research professors and associates or to be assigned to aid other university professors in the prosecution of research projects accepted by the Institute. The duties of these research assistants are clearly differentiated from those of university fellows in that the assistant's task is to help in a particular problem to which he is assigned as opposed to the principle of the fellowship in which the money is allocated to the individual to help him in his own work. A third type of assistance is that rendered to individual professors in the several departments of social science in the prosecution of scholarly research or publication.

The studies and materials of the Institute may be grouped under the general categories of southern regional research in the following fields: general regional culture and economy, population, local government, historical backgrounds, socio-economic activities (including studies in social-industrial relationships), crime and criminal justice, the Negro, folklore and folk backgrounds, social institutions, public welfare, human geography, and regional planning. In addition to the continuation of these types of studies the Institute is focusing upon two major projects. One is to follow up the comprehensive picture of the Southern Regions with a similar adequate study of The Southern People.

The second is the Group-of-Counties Subregional Laboratory of social research and planning. This Group-of-Counties Subregion embraces an area of 13 contiguous counties, 10 of which are in North Carolina and 3 in Virginia, and has been selected as a living laboratory since, from a preliminary survey, it gives every evidence of being admirably adapted for cooperative research, for gathering materials, trying out techniques and methods, and implementing in terms of effective utilization and planning more of the data and methods which are the product of achievement so far. This is particularly true in regional study, where a continuation of mere routine gathering of data and extension of our present methods are not adequate. The subregional laboratory is, therefore, projected as an area in which a miniature Piedmont South can be utilized.

To date, the Institute has cooperated in publishing more than 60 books and monographs, while four times as many articles have resulted from Institute studies. In the files of the Central Office are some 225 manuscripts, classified under more than 35 specific fields of research, growing out of the Institute program.

The policy underlying the general planning and execution of research programs and projects has tended to emphasize, in addition to the state and regional laboratory factors, long-time research, susceptible, however, to units available for shorter-time completion and commensurate with the personnel and resources available. Although projects are selected with a dominance of state and regional subjects, priority is given to those subjects which would have generic value in both the practical results and the possible methodology which might be evolved.

Additional information and application blanks for appointment to research assistantships may be obtained by writing to the INSTITUTE FOR RESEARCH IN SOCIAL SCIENCE, The University of North Carolina, Chapel Hill, North Carolina.

THE FOLKLORE COUNCIL

Russell Marvin Grumman, *Chairman*
Ralph Steele Boggs, *Archivist*
Robert White Linker, *Secretary-Treasurer*

*EXECUTIVE COMMITTEE

Glen Haydon
Robert Burton House
Arthur Palmer Hudson
Russell Train Smith

**ADVISORY BOARD

Eston Everett Ericson
Paul Green
Frank Porter Graham
Richard Jente
Guy Benton Johnson
Frederick Henry Koch
Phillips Russell

The Folklore Council was organized in September, 1935, to promote the cooperation and coordination of all those interested in folklore, and to encourage the collecting and preserving, the study and interpretation, the active perpetuation and dissemination of all phases of folklore. Folklore is defined by the Council as embracing all cultural aspects of folk life.

The Council represents a reorganization of The Institute of Folk Music, which was started in September, 1931, and which now becomes a division of the Council. It was found that there was need for a comprehensive organization to unify and stimulate the variety of interests in folklore represented in the membership of the former Institute of Folk Music. There is at present one Division of the Council, namely: The Institute of Folk Music.

THE INSTITUTE OF FOLK MUSIC

Glen Haydon, *Director*
Jan Philip Schinhan, *Associate Director*

Advisory Board

Richard Chase
Fletcher Collins
Paul Green
George Herzog
George Pullen Jackson
John Powell
Helen Roberts
Charles Seeger
Lamar Stringfield
Charles G. Vardell

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* The three general officers named above are members of the Executive Committee.
** All members of the full Executive Committee are members of the Advisory Board.

The Work of the Institute

The Institute of Folk Music was originated for the purpose of developing creative music distinctly American. Its work is divided into the following phases: 1. Research: discovering, collecting, and publishing native folk-music; 2. Educational work: (a) teaching traditional songs and dances in schools and communities; (b) organizing county folk festivals and "old-time-music" conventions, (c) publishing English and American folk songs and folk dances for educational and social use in schools and communities; 3. Creative composition based on folk music.

The Annual Dogwood Festival and the North Carolina Symphony Society were initiated by the Institute of Folk Music. These organizations are now independently incorporated but continue to work in close cooperation with the Institute. The program of the Dogwood Festival is largely a culmination of activities of the Institute.

The Department of Music offers regular courses in folk music and comparative musicology, looking toward the training of workers in the field.

PUBLIC LECTURES

THE JOHN CALVIN McNAIR LECTURES

Gustave A. Harrer, *Chairman*

This lectureship was founded through a bequest, made by the Rev. John Calvin McNair of the class of 1849, which became available to the University in 1906. In the year 1908 the series of lectures was inaugurated by Francis H. Smith, Emeritus Professor of Physics in the University of Virginia. The plan and purpose of the lectures are stated in the will which reads: "They shall employ some able Scientific Gentleman to deliver before all the students then in attendance at said University a course of Lectures the object of which Lectures shall be to show the mutual bearing of Science and Theology upon each other and to prove the existence and attributes, as far as may be, of God from Nature. The Lectures, which must be prepared by a member of some one of the Evangelic denominations of Christians, must be published within twelve months after delivery, in either pamphlet or book form."

The lectures for 1938 were delivered by Dr. Arthur Holly Compton, Professor of Physics in the University of Chicago, on the subject: Man's Approach Toward God. The lectures were as follows:

1. Science, Religion, and the Growth of Man.
2. Human Freedom and Physical Law.
3. Man's Relation to God.

THE WEIL LECTURES

Dudley deWitt Carroll, *Chairman*

During the years 1914-1915 an unendowed lectureship on American Citizenship was established by the University. The first incumbent was ex-president William Howard Taft, who lectured on "The Presidency: Powers, Duties, Obligations, and Responsibilities." Since that time this foundation, named the Weil Lectures on American Citizenship, has been permanently established through the generosity of the families of Mr. Sol Weil and Mr. Henry Weil, of Goldsboro, N. C.

UNIVERSITY ORGANIZATIONS

Below are listed the various organizations in the University in which students find opportunities of advantage outside their regular academic or professional work. Those who are interested are urged to investigate these organizations.

THE SENATE OF THE DIALECTIC LITERARY SOCIETY AND THE GENERAL ASSEMBLY OF THE PHILANTHROPIC LITERARY SOCIETY

The Dialectic and the Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University and they have shown remarkable power in developing character, as well as in training the intellect. They offer facilities for practice in debate, oratory, and essay writing; and their members become familiar with parliamentary law and procedure.

In 1919 the Philanthropic Society was reorganized on the plan of the General Assembly of the State and changed its name accordingly. Similarly in 1924 the Dialectic Society after reorganization became the Dialectic Senate.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A *Journal,* which is the official organ of the Society and of the North Carolina Academy of Science, is issued quarterly. The objects of the society are to encourage scientific research and to record the results of such work, especially those that pertain to the natural history of the State. It is now in its fifty-sixth year. The volumes already issued contain more than seven thousand pages. By the exchange of the *Journal* with more than three hundred scientific journals and periodicals many thousands of books and pamphlets have been collected, all of which are arranged in the University Library. The membership is at present restricted to the faculty and students of the University, and members of the staff of the State Department of Conservation and Development.

THE PHILOLOGICAL CLUB

The Philological Club meets in the lounge of the Graduate Club on the first Tuesday evening of each month during the college year. Its membership consists of the faculty and advanced students in the departments of language and literature of the University. The objects of the club are to stimulate original investigation in language and literature and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed.

DER DEUTSCHE VEREIN

The Verein was established for the purpose of maintaining and stimulating among the officers and students of the University interest in German literature and music, life and customs, progress and achievements. The aim is to employ the German language as much as possible. The effort is made to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language.

LE CERCLE FRANCAIS

Le Cercle Français holds bi-monthly meetings at which topics of general interest pertaining to French literature and French life, manners, and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French language, and to provide its members with an opportunity to hear idiomatic French spoken and to use the language with more facility. All officers and students of the University interested in the study of French are eligible for membership.

EL CLUB ESPANOL

The membership of *El Club Español* consists of students of the University who are interested in Spanish. The objects of the club are to stimulate interest in the language, literature, and customs of Spain, and to give its members an opportunity to hear and speak Spanish.

THE NORTH CAROLINA CLUB

The North Carolina Club was organized September 25, 1914, for the purpose of providing an open forum to review, interpret, and discuss the economic, social, and civic problems of the State. It is an organization composed of students and faculty members who are bent upon accurate, intimate acquaintance with North Carolina. The Club meets for an hour upon fortnightly Monday evenings for the reading and discussion of a paper prepared by a member for each meeting.

MUSICAL ORGANIZATIONS

The Auditorium of Hill Music Hall, seating eight hundred people, with its four manual concert organ, is the home of recitals and concerts by faculty members, students in the department of music, and visiting artists. Approximately twenty-five concerts and recitals on an average are given during the year.

Hill Hall contains a collection of records, scores, books on music, together with phonographs for audition purposes, which are accessible to all students of the University during certain hours daily. Provision is made for the reception of the weekly broadcasts of symphonies, operas, and other important programs.

The Department of Music extends its facilities with respect to both faculty and equipment to the support of the musical organizations. The work in Glee Club, Orchestra, and Band is carried on as a regular part of the curriculum in music. For conditions governing the granting of college credit for participation in these organizations see Department of Music.

The University Glee Clubs

The Men's Glee Club and the Women's Glee Club are open to all students of the University. Each group devotes its time to the study and performance of appropriate vocal literature and the schedule is so arranged that the two groups may join forces for the interpretation of compositions for a mixed chorus. Provision is made for frequent concert appearances of these organizations.

The University Symphony Orchestra

The personnel of this organization includes students, faculty, and townspeople. The rehearsals are devoted to the study of symphonic literature. Several concerts are given during the year.

The University Band

The band is open to all students of the University. Special attention is given to the study and performance of the standard musical literature for this type of ensemble group. In addition, especially during the fall quarter, the band cooperates with the Athletic Association in providing music for the football games, and usually makes one or more trips with the team. During the winter and spring quarters, as conditions permit, concert tours throughout the State are arranged.

The Chapel Hill Choral Club

The Chapel Hill Choral Club, an informal organization of students, faculty, and townspeople, gives two or three performances each year. In recent years such works as Gounod's St. Cecilia Mass, Haydn's The Seasons, Verdi's Requiem Mass, a concert version of Sampson and Delilah by Saint-Saens, and three cantatas by Johann Sebastian Bach have been given. Rehearsals are held each Monday evening.

Alpha Rho Chapter of Phi Mu Alpha (Sinfonia)

This chapter of the national honorary musical fraternity is composed of students of music, and such other students and faculty members as reveal particular interest in the participation in musical performance. The members of the chapter act as hosts for all musical events occurring in Hill Music Hall throughout the year. In order to create a fund from which scholarships for worthy students of music may accrue, the Alpha Rho chapter of Sinfonia sponsors from time to time concerts by well-known musical artists.

THE CAROLINA PLAYMAKERS

The Carolina Playmakers is the University dramatic organization.

Its purpose, as set down in the Charter, is: "First, to promote and encourage dramatic art, especially by the production and publishing of plays; Second, to serve as an experimental theatre for the development of plays representative of the traditions and present-day life of the people; Third, to extend its influences in the establishment of a native theatre in other communities." It is incorporated under the laws of the State of North Carolina as a non-stock corporation.

The Carolina Folk-Plays and other plays of American locale are written and produced in the University courses in Dramatic Composition and Production, members of the community of Chapel Hill—students, faculty, and townspeople—assisting. Those who contribute to the writing or producing of the plays constitute the membership of the organization. Any student may participate in any of the various departments of the work.

The Playmakers now have their own theatre building on the campus, fully equipped for all manner of experimentation and production. Besides this, their Forest Theatre furnishes an ideal setting for out-of-door productions. They have an adequate workshop for the construction and painting of scenery and for the making of costumes.

The large stage in the University auditorium, Memorial Hall, provides ample facilities for traveling professional companies.

YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association is an organization of students which seeks by precept and example to encourage right and wholesome Christian living. In this spirit it endeavors to extend a helping and active influence to every sphere of campus activity.

Not unaware of its essentially religious nature, it strives in every feasible way to make the religion of the campus very real and very genuine, and to uphold the Christian life as the ideal in conduct, thought, and temperament for every man. To those who are so inclined it offers unlimited opportunity for religious service and personal growth.

The Association has very greatly enlarged its program and staff in the past eight years, keeping step with progress in all other departments of the University, and with the increase in student enrollment.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The Young Women's Christian Association is a voluntary organization for women students in the University. It is a religious, social, and welfare agency to give opportunity for the individual's development in these extra-curricular areas and to provide specific service to women students. This Association was organized early in 1936 and is affiliated with the Student Young Women's Christian Association movement in the United States. With its duly elected staff of officers and advisory board, the Y. W. C. A. has its regular Cabinet meetings weekly and a public program fortnightly, in addition to a number of committees working on various service projects. All women students in the University are eligible to membership.

EXPENSES

The University reserves the right to make, with the approval of the proper authorities, changes in any fees at any time.

Tuition and Other Fees for Each Quarter

Each student whose *bona fide* residence has not been established in North Carolina for at least the six months immediately prior to his first registration in the University must pay an extra reciprocal charge for each fall, winter, or spring quarter he spends in residence. The residence of a minor is that of his parents or guardian. The residence of an adult remains with his parents unless he shall have independently set up his own.

Bona fide residence in North Carolina means that the student is not in the State primarily to attend the University and that his status as a resident has not been set up merely as a technical bar to the extra charge. Mere ownership of property or payment of taxes apart from residence does not qualify one as a resident; nor may a student qualify by living in North Carolina the six months immediately prior to his first registration unless he continues so to live during the whole period of his stay at the University.

Students are presumed to know their correct residence status and to state the facts concerning it truthfully on their application and registration blanks. Students in doubt should appeal their cases in writing to the Dean of Administration, preferably in advance of registration. Students who misrepresent the facts of their residence status for the purpose of defrauding the University will be dealt with as are all other violators of the honor code.

For residents of North Carolina the fees payable at the beginning of the quarter are as listed below for the General College and the College of Arts and Sciences; the fees for those registering in the School of Commerce include, in addition to the following, a charge of $2.00 a quarter for special library, lecture, and reading materials.

Tuition (average charge, see note below)	$26.40
*Matriculation	20.00
**Student Publications	2.30
Laundry Deposit	8.50
Student Union Fee	1.00
Student Entertainment Fee	1.00
Total for each quarter	$59.20

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* This fee includes fee for physical education, the library fee, the fee for infirmary service, the fee for registration costs, the fee for debates (.17), and membership fee in the Athletic Association ($3.33).

** This fee includes the following items: Daily Tar Heel $1.28, Yackety Yack .54, Buccaneer .23, and the Carolina Magazine .25.

NOTE: The tuition figure listed here is based on a standard load of 16 hours a quarter. In the three divisions indicated tuition is charged on the basis of the number of quarter hours the student *carries*, the rate being $1.65 a quarter hour for residents of North Carolina. Any variation above or below the standard load of 16 hours a quarter will raise or lower the tuition charge for that quarter. (There is no charge for hours in physical education and hygiene.)

Tuition and Reciprocal Fee Rates for Out-of-State Residents

The amount of extra charge to each out-of-state resident is reciprocal; i.e., it is based upon the average of charges to non-residents attending similar institutions in the area of the student's residence. The resulting rate of charge including tuition and reciprocal fee for out-of-state residents is as follows:

FOR RESIDENTS OF:

Alabama, Arkansas, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Mississippi, South Carolina, Tennessee, Virginia and West Virginia	$3.65
Arizona, New Mexico, Oklahoma, Texas	3.65
Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont	6.00
Indiana, Illinois, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin	3.65
California, Nevada, Oregon, Washington	3.65
Colorado, Idaho, Kansas, Montana, Nebraska, North Dakota, South Dakota, Utah, Wyoming	3.65
All other registrants	6.00

(The application of this scale of charges will in a standard program—16 hours—give a combined tuition and reciprocal fee figure of $58.40 or $96.00 depending upon the state of residence. The exact total tuition and fees chargeable to a particular out-of-state student may be reached by substituting for "tuition" in the charges listed on page 60 the correct combined tuition and reciprocal fee figure calculated according to the above quarter hour rate.)

All the above figures are exclusive of laboratory and other special fees.

Each application for admission to advanced standing must be accompanied by a fee of five dollars ($5.00) as an earnest of good faith. If the applicant is not accepted, the fee is returned; if he is accepted and enrolls as a student, the fee (having been deposited with the University Cashier) will be applied against the bill at his first registration; if he is accepted but chooses not to enroll as a student, the fee will be forfeited regardless of the reasons involved.

DELAYED REGISTRATION: The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for delayed registration. *No appeal from either attendance probation or the late registration charge of five dollars will be granted, unless the delay is due to circumstances clearly beyond the student's control.* Such an appeal must be made in writing to the Dean of Administration, must show clearly, good and sufficient justification for the delay in registering, and must bear the approval of the Dean of the division of the University in which the appellant is enrolled.

LAUNDRY DEPOSIT: Students will be required to send their laundry to the University Laundry for which a deposit will be collected at the time of registration. When the amount of the deposit has been exhausted, additional charges must be met. Any amount not used will be refunded at the close of the quarter, except that a minimum charge of twenty-five cents a week will be assessed each student not using the University Laundry facilities.

LABORATORY FEES: Each student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. The fees for the various laboratory courses are shown in connection with the descriptions of the courses.

TRANSCRIPTS OF RECORD: One transcript will be furnished without charge. Additional transcripts will be furnished only upon payment of $1.00 for each copy.

GRADUATION FEE: The graduation fee is $5.00, payable when application for the degree is made.

PAYMENT OF BILLS: Please refer to page 77 for payment of bills for tuition and fees, and to page 79 for payment of dormitory room rent bills.

Dormitory Accommodations for Men

Accommodations for approximately seventeen hundred men students are available in the University dormitories.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillows, bed linen (for single beds), blankets, and towels.

Room rent ranges from $5.50 to $15.00 a month for each occupant, the price depending upon the location of the room.

This charge includes light, heat, and service. Rooms are leased for the scholastic year. See page 78 for assignment of rooms.

Dormitory Accommodations for Women

Four dormitories provide excellent accommodations for 412 women students. Spencer Hall and Woman's Building No. 1 are for undergraduates, while Woman's Building No. 3 is reserved for graduates and professional students. Woman's Building No. 2 is occupied by both undergraduates and graduates. All four of these buildings are new and modern. Women students not living in their own homes are required to reside in a dormitory unless permssion to live elsewhere is granted by the Adviser to Women. Ordinarily such permission is granted in exceptional cases only.

Application for a room should be made to the Adviser of Women, and should be accompanied by a deposit of six dollars.

Rooms are rented upon the basis of the entire scholastic year of three quarters. Payment is made in three instalments which are due September first, January first, and March fifteenth. The amount of each instalment is determined by the annual rental price of the room and the length of each quarter. The room deposit of six dollars is not credited on the fall quarter instalment, but is credited on the winter and spring quarter instalments.

Residents of Spencer Hall are required to board there. Residents of the Woman's Buildings are given preference for vacancies in Spencer Hall dining room, but are privileged to board at any of the available boarding places.

All rooms are completely furnished. Students are required to provide, however, pillows, bed linen (for single beds), blankets, and towels.

The cost of room and board and details concerning payments may be found in the Handbook for Women Students or by correspondence with Mrs. M. H. Stacy, Adviser to Women.

Boarding Accommodations

The University operates the conveniently located University Dining Hall Cafeteria for the benefit of the students. The building and equipment are new and modern. Well balanced menus are offered at reasonable prices. Meal ticket books are sold for $5.00 and one book will usually last the average person a week.

The Carolina Inn, which is operated by the University, has a small cafeteria which offers excellent food at commercial rates.

SUMMARY OF ESTIMATED EXPENSES OF THE AVERAGE STUDENT FOR THE COLLEGE YEAR

*Board at $25 a month, estimated vacations eliminated	$200.00
Dormitory room, at $7.50 a month, plus dormitory social fee of $1.00	68.50
**Tuition at $1.65 a quarter hour for the normal schedule of 48 quarter hours (16 each quarter) a year	79.20
Matriculation and students' fees, estimated for freshman year	73.90
Laundry deposit at $8.50 a quarter	25.50
Books and supplies, estimated for year	27.00
Laboratory fees, estimated for the average freshman	10.00
TOTAL FOR NORTH CAROLINA RESIDENT	$484.10

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*Many students are eating for $22.50 or less at the University Dining Hall Cafeteria.

****Tuition for Out-of-State Residents:**

Tuition (including the out-of-state differential) for the normal schedule for residents of the DISTRICT OF COLUMBIA and the following states will be $175.20: Alabama, Arizona, Arkansas, California, Colorado, Florida, Georgia, Idaho, Indiana, Illinois, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

Tuition (including the out-of-state differential) for the normal schedule for residents of the following states will be $288.00: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

The above tuition scale applies to the General College, College of Arts and Sciences, School of Commerce, and Graduate School.

Tuition for Professional Schools:

Pharmacy Tuition is $85 a year; Law, $100 a year; Medicine, $250 (tuition and Matriculation) a year; Library Science, $75 a year. The out-of-state differential for this group adds $100 a year ($33.34 a quarter—$50 a term in Law) in each case regardless of state of residence.

PECUNIARY AID

FELLOWSHIPS AND SCHOLARSHIPS

The Ledoux Fellowship in Chemistry. (Established in 1911 by Dr. Albert R. Ledoux). The holder is expected to devote himself to research in chemistry. This fellowship is endowed, and yields $300 annually.

The Graham Kenan Fellowship in Philosophy. (Established in 1921 by Mrs. Graham Kenan). A fellowship supported by the income from an endowment of twenty-five thousand dollars, in memory of an alumnus and trustee of the University. This fellowship is awarded annually by Professor Henry Horace Williams.

The Moore Scholarships. (Established in 1881). Bartholomew Figures Moore, of Raleigh, bequeathed $10,000, the interest of which shall be devoted to paying the tuition of students.

The Mary Ruffin Smith Scholarships. (Established 1885). Miss Mary Ruffin Smith bequeathed to the University in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land of 1,460 acres, known as Jones's Grove, in Chatham County. The will provides that rents of the land, or the interest on the purchase money if sold, shall be used to pay the tuition of such poor students as the Faculty shall appoint.

The Mary Ann Smith Scholarships. (Established in 1891). Miss Mary Ann Smith bequeathed $37,000 for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

The Cameron Scholarships. (Established in 1892). The heirs of Paul Carrington Cameron founded in his memory ten scholarships of the value of $75 each.

The Speight Scholarships. (Established in 1892). The late Mrs. Mary Shepherd Speight bequeathed $10,000 to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of professors.

The Wood Scholarship. (Established in 1892). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of $75.

The Weil Scholarship. (Established in 1898). A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of $75.

The Armfield Scholarships. (Established in 1901 and 1904). These scholarships were founded by the generosity of the late Mr. Eugene M. Armfield, of High Point, N. C., a member of the class of 1888.

The Kenneth Murchison Scholarships. (Established in 1904). These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and the late Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

The Donald Fairfax Ray Scholarship. (Established in 1919). Mrs. N. W. Ray, of Fayetteville, N. C., has established this scholarship in memory of her son, Donald Fairfax Ray, a graduate of the University, who died while in the service of his country.

The Holt Scholarships. (Established in 1920). Four scholarships are maintained by the income from the Holt Loan Fund, established by Mr. Lawrence S. Holt, Jr. They are awarded by the Committee on the Holt Fund, to a member of each of the four classes in the Academic Department. Applications are considered after the opening of the University in the fall.

The Alumni Scholarships. These scholarships have been established by the gifts of Alumni, and they vary in stipends according to the funds in hand.

The R. H. Lewis Scholarships. Four scholarships, endowed by the University Gymnasium Association, and called The R. H. Lewis Scholarships, are assigned by the President, and are good for tuition in the Academic Department.

The Mrs. Augustus H. Jones Scholarship was created by a gift of two thousand dollars from Mrs. James H. Parker, of New York City, the income to be used for one scholarship. The recipient of this scholarship is to be designated by Mrs. James H. Parker during her life and thereafter upon the recommendation of the New York Chapter of the United Daughters of the Confederacy. Failing this recommendation from either source, appointment is to be made by the President of the University, preference being given first to relations of the late Dr. James H. Parker, of New York, and second to relations of the donor.

The George Newby Toms Scholarships. (Established 1926). Mr. C. W. Toms, in memory of his son, George Newby Toms, has granted the income from a fund of $5,000 as scholarships to worthy students, preference being given to students from Durham and Perquimans counties in North Carolina.

THE MARY K. BROWN MEMORIAL SCHOLARSHIP. This scholarship was established in 1931 by Mrs. James M. Brown in memory of her daughter who served with unusual devotion as secretary of the School of Commerce of the University for several years. This scholarship is awarded to a worthy student who is dependent upon his own efforts to secure an education.

THE GENERAL ROBERT RANSOM SCHOLARSHIP. This scholarship to the value of $200 is awarded each year to a lineal descendant of a Confederate Veteran. It is awarded and controlled by the United Daughters of the Confederacy in North Carolina.

THE JEFFERSON DAVIS ESSAY SCHOLARSHIP. Awarded each year by the United Daughters of the Confederacy in North Carolina to the high school graduate who writes the best essay on Jefferson Davis. Value $200.

WILLIAM BLOUNT RODMAN SCHOLARSHIPS. Two scholarships assigned to students at the University from the memorial trust fund created by Colonel W. B. Rodman in memory of his father, William Blount Rodman. They are assigned by the State Superintendent of Public Instruction, Trustee of the fund.

THE DANIEL G. FOWLE SCHOLARSHIP. One scholarship, founded in 1928 by Mrs. Walter F. Stearns (Mary H. Fowle) in memory of her father, Governor Daniel G. Fowle. Mrs. Stearns reserves the right to award the scholarship to a member of her own family; otherwise it will be awarded by the Superintendent of the Raleigh Schools and the Principal of the Raleigh High School to one Raleigh student on the basis of merit, character, and scholarship. Value annually $100.

CLASS OF 1913 SCHOLARSHIP. (Established in 1938 by the Class of 1913). A scholarship fund of $600.00 contributed by members of the class as a gift to the University on the 25th anniversary of the graduation of the class. The fund is devoted to the maintenance of one scholarship, valued at $600.00 which is payable to the holder in four equal annual instalments. It is the hope of the Class of 1913 that succeeding quarter-century classes give similar amounts so that a similar scholarship can be awarded each year. The 1913 scholarship has been awarded to William L. McKinnon, Wadesboro, N. C.

THE MARK R. BRASWELL SCHOLARSHIPS. (Established in 1938). In memory of Dr. Mark R. Braswell, Class of 1888, of Rocky Mount, a fund of $20,000 has been created for the endowment of scholarships valued at $200.00 each to be awarded annually to entering freshmen by the Braswell Scholarship Committee. Four scholarships are awarded annually for a tenure of one year each. The Committee, in its discretion, may extend the tenure, thus enabling the award to be made to a previous holder. The basis of award is character, all-around development, high scholastic attainment, and financial need.

THE HERBERT WORTH JACKSON MEMORIAL SCHOLARSHIP. (Established in 1938). Endowed by Mrs. Annie H. Jackson of Richmond, Va., as a memorial to her husband, Herbert Worth Jackson, of the Class of 1886. The scholarship valued at $500.00 annually is awarded every fourth year, beginning with 1938 (i.e. 1942, 1946, 1950, etc.), to an entering freshman, who shall be a native-born resident of North Carolina and who shall be nominated by his high school or preparatory school as its candidate for the scholarship. One candidate only may be certified by each school to the University Scholarship Committee which in turn shall select from all boys thus certified twenty who shall come to Chapel Hill for interviews with the Jackson Scholarship Committee. The winner of the scholarship shall be announced by May 20. He shall have tenure of the scholarship for four years provided, in the opinion of the Committee, he maintains high standards both in morals and in scholarship. The basis of selection shall be high scholastic rank, character, qualities of leadership, achievements, physical health and vigor, and promise of future distinction.

BERNARD-GRAIL SCHOLARSHIPS. (Established in 1938). One or more scholarships of $75.00 each, maintained by interest from the Grail Loan Fund, will be awarded each fall to worthy and outstanding undergraduate students who have been enrolled in the University for at least two consecutive quarters immediately preceding the awarding of the scholarships. These scholarships are controlled by the Faculty Scholarship Committee, assisted by two members of the Order of the Grail. These scholarships were established in memory of Professor William Stanley Bernard who, as faculty adviser, was a source of inspiration and guidance to the Order of the Grail.

THE JAMES ALEXANDER HARTNESS SCHOLARSHIP. (Established 1939). Mrs. James A. Hartness has founded in memory of her late husband, James Alexander Hartness, a scholarship of the value of $100.

None of these scholarships is open to students in the Schools of Law, Medicine, Pharmacy, and Library Science. For scholarships open to students in these Schools, please see the special bulletins of the schools.

This list does not include certain annual contributions for scholarships, which are not on an endowment basis.

All applications for scholarships must be filed in the office of the Committee on Endowed Scholarships on or before April fifteenth, and must be in the regular form prescribed by the University. Blank forms are supplied on application to Mr. Edwin Lanier.

FREE TUITION

Free tuition is given to indigent residents of North Carolina who are also under bodily infirmity.

LOAN FUNDS

THE DEEMS FUND. (Established in 1879). A fund of $600 was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a professor in the University, in memory of his son, Lieut. Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt by a gift of $10,000 "as an addition to the Deems fund, to be loaned to indigent students of the University."

THE MARTIN FUND. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of the fund can be used for loans. It became available during the session of 1908-1909.

THE HOGUE FUND. A fund of $4,000 has been established by the Rev. R. W. Hogue, of Baltimore, the income from which is to be loaned to worthy students in the University.

THE HEWITT FUND. A fund of $18,700 was established in 1916 by the bequest of Mr. Joseph Henry Hewitt, of Princess Anne County, Virginia. Only the income from this fund can be used for loans to "needy and deserving students" of the University. This fund became available during the session of 1919-1920.

THE HOLT FUND. A fund of $10,000 has been established by Mr. Lawrence S. Holt, Jr., of Burlington. The principal of this fund is to be loaned to "worthy and needy students of the University." The income from this fund is to be used in establishing four scholarships in the University. It became available during the session of 1920-1921.

THE VICTOR S. BRYANT FUND. A fund of $7,500 has been established by the bequest of Mr. Victor S. Bryant, of Durham. The principal and the interest of this fund can be used for loans to "worthy and needy young men" at the University. This fund became available during the session of 1920-1921.

THE MASONIC LOAN FUND. A fund of $1,250 has been established by the Grand Lodge of Masons, the Grand Chapter of

Royal Arch Masons, and the Grand Commandery of Knights Templar of North Carolina, for the purpose of "assisting worthy boys and girls to secure an education." The principal of this fund is loaned, and the interest is added thereto. The fund became available in the fall of 1922, and has since been increased.

THE SEELY FUND. A fund of $1,000 has been established by Mr. F. L. Seely, of Asheville, the principal of which is to be loaned to worthy and needy students, and the income therefrom to be added to the principal. This fund became available during the fall of 1922.

THE E. S. BLACKWOOD MEMORIAL LOAN FUND, created by bequest of Miss Katherine B. Blackwood, of New York City. This fund consists of $10,000 "to be used as a loan fund for needy students." This fund is administered in the same manner as the Deems fund.

THE A. B. ANDREWS LOAN FUND. In May, 1925, the five children of the late Colonel A. B. Andrews (William J. Andrews, class of 1891; Alexander B. Andrews, class of 1893; Mrs. W. M. Marks, John H. Andrews, class of 1897, and Graham H. Andrews, class of 1903) established a fund of $2,500 of which the principal and interest are to be loaned to worthy students. This fund has been increased to $4,500 through the subsequent gifts from Mr. Alexander B. Andrews, of Raleigh, N. C. The A. B. Andrews Loan Fund is administered as are other loan funds from the University and is established as a memorial to Colonel A. B. Andrews, a noted railroad builder in North Carolina and a Trustee of the University. It is requested by the donors that assistance from this fund be rendered first to students from those counties of North Carolina in which Colonel Andrews built railroads and second to students from those counties through which lines of the S. A. L., Norfolk-Southern, and Southern railway systems run.

THE J. E. LEAR FUND. This fund of $5,244 became available in 1924. The fund was the result of installation work done by the senior class in electrical engineering under the supervision of Professor J. E. Lear.

THE JOSEPH E. POGUE LOAN FUND. This fund of $1,000 was presented to the University in April, 1930, by Mrs. Joseph E. Pogue as a memorial to her husband, the late Mr. Joseph E. Pogue, the fund to be known as the Joseph E. Pogue Loan Fund. The principal and interest are to be loaned to deserving students.

THE EDMONDS LOAN FUND. This fund of a little over $800 has been set up by the Class of 1910 as a memorial to W. R. Edmonds, a member of that class.

GRAIL LOAN FUND. In June, 1930, the Order of the Grail, an undergraduate organization at The University of North Carolina, gave $1,400 to be known as the Grail Loan Fund. Additional gifts by the Order of the Grail and income from interest have increased the fund to $3,000.00. The principal of this fund is loaned to worthy student and the income is used to support the Bernard-Grail Scholarships.

THE ALUMNI LOYALTY LOAN FUND. Established on June 30, 1930, by the advance of $12,200.00 out of the Alumni Loyalty Fund.

THE ALDEN JOSEPH BLETHEN III MEMORIAL LENDING FUND. During the fall of 1930, Col. C. B. Blethen, of Seattle, Wash., gave $2,000 to be known as the Alden Joseph Blethen III Memorial Lending Fund. This he did as a memorial to his son, A. J. Blethen III, a member of the Class of 1934. The principal of the fund is to be loaned to deserving students.

THE ROCKINGHAM COUNTY ALUMNI LOAN FUND. A fund of $713.32 advanced by the Rockingham County Alumni Association, available since January 11, 1932. It may be recalled by the lender as it may desire.

ESCHEATS FUND. According to State law, clerks of court are directed to forward to the University money included in estates for which no heir can be discovered. For these funds the University is merely custodian for a period of years during which any heir discovered may legally claim the funds. During this period the money is placed in the Student Loan Funds as a temporary investment.

THE CHARLES L. COON MEMORIAL LOAN FUND. A fund of $615.00 established by the administrators of the Charles L. Coon Memorial Loan Fund of Wilson, North Carolina, in September, 1934. The funds to be loaned to graduates of the Charles L. Coon High School of Wilson, North Carolina, upon the written approval of the Superintendent and the Chairman of the Board of Trustees of said high school.

THE JOHN B. WEAVER LOAN FUND. A fund of $1,125 established by Dr. William Jackson Weaver of Asheville, North Carolina, in memory of his father, John B. Weaver. This fund became available July 6, 1937, and is administered under the same terms and conditions as the Deems Fund.

The Emergency Student Loan Fund

In the winter and spring of 1932, the University confronted a genuine emergency growing out of an announced reduction of State appropriations by 30%, and the fact that between five hundred and seven hundred students were without funds with which to continue their course. When this situation was presented by President Graham, students ($2,057.14), faculty ($2,035.38), the people and community organizations of Chapel Hill ($970.22), various chapters of the D. A. R., U. D. C., and other committees of women, began building a student loan fund. Alumni and friends of the University everywhere contributed to raise the total of new loan resources to $109,000.00, known collectively as "The Emergency Student Loan Fund." The portions of that fund which for some appropriate reason were separately established are listed below. Unless otherwise indicated, the funds are loaned on the same terms as is the Deems Fund.

THE W. C. COKER LOAN FUND. A fund of $500.00 established February 2, 1932, by Dr. W. C. Coker, head of the Department of Botany of the University.

THE JESSIE KENAN WISE LOAN FUNDS. A loan fund of $25,000.00 established February 4, 1932, by Mrs. Jessie Kenan Wise, of Wilmington, N. C., and another loan fund of $47,000.00 in securities, the income from which may be loaned to students immediately, and the principal may be similarly used when available through the sale of the securities as opportunity for sale on favorable terms may arise.

THE BURTON CRAIGE LOAN FUND. A fund of $1,000.00 established February 6, 1932, by Mr. Burton Craige, 1897, of Winston-Salem, N. C.

THE JAMES A. GRAY LOAN FUND. A fund of $500.00 established February 15, 1932, by Mr. James A. Gray, '08, of Winston-Salem, N. C.

THE BLAIR LOAN FUND. A fund of $500.00 established March 2, 1932, by Col. David H. Blair, '98, and Mrs. David H. Blair, of Washington, D. C.

THE SARAH WATTS MORRISON LOAN FUND. A fund of $1,000.00 established March 4, 1932, by Mrs. Sarah Watts Morrison of Durham and Charlotte, N. C.

THE STUDENT LOAN FUND OF THE NORTH CAROLINA CONGRESS OF PARENTS AND TEACHERS, INC. A fund of $750.00 loaned to the student loan funds by Mrs. J. W. Burke, Treasurer, by authority of the organization named above.

THE SARAH GRAHAM KENAN LOAN FUND. A fund of $1,000 established March 7, 1932, by Mrs. Sarah G. Kenan, of Wilmington, N. C., to be used first by a designated student. When repaid, Mrs. Kenan will indicate its further usage.

THE MILO M. PENDLETON LOAN FUND. A fund of $1,000.00 established March 15, 1932, by Mrs. Katharine Pendleton Arrington as a memorial to her brother, Milo M. Pendleton, of the Pharmacy Class of 1902.

THE RICHMOND, VIRGINIA, ALUMNI ASSOCIATION LOAN FUND. A fund of $320.00 given by the organization named above with the request it be set so as to receive annual additions from the donors. It has been available since March 29, 1932.

THE LOAN FUND OF THE WOMAN'S AUXILIARY, N. C. PHARMACEUTICAL ASSOCIATION. A fund of $300.00 was established in 1932 by the above named organization for use by students of pharmacy. This fund has been increased to $500.00.

THE EDRINGTON SPENCER PENN AND CHARLES ASHBY PENN, JR., LOAN FUND. A fund of $1,000 established April 14, 1932, by Mrs. Charles Ashby Penn, of Reidsville, North Carolina.

THE C. W. TOMS LOAN FUND. A fund of $1,000.00 established May 19, 1932, by Mr. C. W. Toms, '89, of New York City, in memory of his son, the late George Newby Toms, '28.

THE MARGARET MCCAULL CARMICHAEL LOAN FUND. A fund of $1,000.00 established by Mr. W. D. Carmichael, '97, on May 25, 1932. Mr. Carmichael is a resident of Durham, N. C., and New York City.

THE JEFFERSON C. BYNUM MEMORIAL LOAN FUND. A trust fund established by Mrs. Jefferson C. Bynum in memory of her husband. The fund of $2,000.00 to be held in trust for the future education of her two sons, Jefferson C. Bynum, Jr., and Rufus S. Bynum. Pending the matriculation of the beneficiaries at the University, the fund may be loaned to University students.

THE ANNIE LOUISE WATTS HILL LOAN FUND. A fund of $1,000.00 established by Mr. John Sprunt Hill, of Durham, N. C., on June 4, 1932, as a memorial to his wife.

THE GEORGE BASLEY HISS LOAN FUND. A fund of $10,000.00 established by Mrs. Bertha T. Hiss, of Charlotte, N. C., in memory of her husband, George Basley Hiss. This fund has been available since June 30, 1932.

Applications for Loans

Applications for loans will be considered when made in person by students registered in the University. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest. Applications should be made to the Student Loan Fund office as far in advance as possible.

Self Help Work

Many students earn a part of their expenses by many forms of honorable labor. Students work in the Library, Dining Hall, Graham Memorial, Book Exchange, dormitories, Woollen Gymnasium, Kenan Stadium, Buildings Department, and other University divisions and offices. All jobs are assigned by the Self Help Committee, solely on the bases of scholastic merit, financial need, and good character. Holders of jobs are required to maintain a scholastic average of at least "C" from year to year. Jobs off the campus, in Chapel Hill homes and in business firms, are not assigned by any committee or division of the University. Such work is secured by the efforts of the student, the secretary of the Self Help Committee helping wherever possible. All inquiries about and application for work should be mailed to Mr. Edwin S. Lanier, Secretary, Self Help Committee, before July 1, after which the jobs are assigned.

It is difficult for first-year students to do self help work and carry successfully a full schedule of academic work. They are urged to devote full time, if possible, to their studies and related activities.

There are usually five or more applicants for each available job. The Committee, in its best judgment, assigns the available jobs to those who are most urgently in need of financial aid and who show high scholastic achievement.

MEDALS AND PRIZES

THE MANGUM MEDAL IN ORATORY. (Established in 1878). A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, class of 1815, is continued by his great-grandson, Mr. Mangum Weeks, class of 1915, and is awarded to that member of the Senior Class who during his four years prior to graduation has best exhibited the qualities of oratory, debate, and scholarship.

THE EBEN ALEXANDER PRIZE IN GREEK. (Established in 1887). A prize of $10 is offered annually to that member of the Sophomore Class who shall present the best rendering into English of selected passages of Greek not previously read.

THE BINGHAM PRIZE IN DEBATE. (Established in 1899). This prize was established by the late Mr. R. W. Bingham, in memory of his great-grandfather, grandfather, father, and brother, and is continued by Mr. Barry Bingham. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held during Commencement.

THE BRYAN PRIZE IN POLITICAL SCIENCE. (Established in 1903). A prize will be given annually for the best thesis in Political Science. The fund was established by the late William Jennings Bryan.

THE ARCHIBALD HENDERSON PRIZE IN MATHEMATICS, formerly the WILLIAM CAIN PRIZE. (Established in 1908). A gold medal is offered annually to that student who shall take the highest rank in Mathematics 32-33. No student will be recommended for the prize unless he attains to grade B.

THE MILDRED WILLIAMS BUCHAN PRIZE. (Established in 1920). A fund of one thousand dollars was given by Mr. Edward Robertson Buchan in memory of his wife. The income of this fund is to provide a prize in the Department of Philosophy.

THE PATTERSON MEDAL. (Established in 1924). A gold medal is offered annually by Dr. Joseph F. Patterson to commemorate the memory of his brother, John Durant Patterson. This medal is awarded for general excellence in athletics to a student selected by a special committee.

CHI OMEGA PRIZE IN SOCIOLOGY. A prize of twenty-five dollars is awarded by the local chapter of the Chi Omega fraternity to the undergraduate woman student who writes the best paper on some subject in the field of sociology or public administration. The subject will be submitted to the undergraduate student body some time before the fifteenth of February. Papers are required to be handed in by the fifteenth of May. The Department of Sociology will select the subject and act as judges of the papers. The prize will be awarded at Commencement.

THE F. W. HANCOCK PRIZE IN PHARMACY. A prize of a gold watch, suitably engraved, is offered annually by Mr. F. W. Hancock, of Oxford, to that member of the graduating class who has achieved the highest scholastic rating during four years of study.

THE BUXTON WILLIAMS HUNTER MEDAL IN PHARMACY. A gold medal is offered annually by Mr. D. R. Davis, of Williamston, in honor of his uncle, Mr. Buxton Williams Hunter, of New Bern, and is awarded to that student who has shown outstanding qualities of leadership and scholarship and who has done conspicuous work in the Student Branch of the N. C. P. A.

THE LEHN AND FINK GOLD MEDAL IN PHARMACY. This medal is given annually by Lehn and Fink of New York City.

THE ALGERNON SYDNEY SULLIVAN AWARD. (Established in 1928). To be bestowed annually upon one man and one woman of the graduating class, and those who receive it shall have demonstrated their worthiness to typify that spirit of brotherly love which was the cornerstone of the life of Mr. Sullivan. The Award shall in no wise be based upon scholastic, athletic, or other collegiate attainments, but rather upon that quality, much broader in its scope, which is best described as a desire to be of service.

THE ROLAND HOLT CUP IN PLAYWRITING. Established in 1936 by Mrs. Roland Holt in memory of her husband. This award is made each year by the Department of Dramatic Art for excellence in playwriting.

REGULATIONS

SPECIAL NOTICE TO STUDENTS

This catalogue, issued in the spring of each year, is intended to give such a description of the work of the University and such a digest of its rules as are needed by the students. Neither the courses announced nor the rules given are valid beyond the succeeding year, for before the end of the succeeding year a new catalogue will have been issued, superseding all previous catalogues. Ordinarily a student may expect to be allowed to secure a degree in accordance with the requirements of the curriculum laid down in the catalogue in force when he first entered the University, or in any one subsequent catalogue published while he is a student; but the faculty reserves the right to make changes in curricula, as in rules, at any time when in its judgment such changes are for the best interests of the students and the University.

REGISTRATION

All students are expected to present themselves for registration *Monday or Tuesday, September 23 or 24, 1940, between the hours of 9 a. m. and 5 p. m., at the places announced in the plan for registration. All men registering here for the first time will report for physical examination to the Infirmary; all women will consult Mrs. M. H. Stacy, Adviser to Women, in her office in the South Building, second floor. Bills for tuition and fees are payable at the time of registration. For the winter and spring quarters all students except those in the School of Law must register in December and March according to a schedule published immediately before the examinations for the fall and winter quarters begin.

Registration for credit for any course is limited to the first seven calendar days of a quarter, unless the late registration is approved by the instructor concerned, the Dean, and the Administrative Board (or the Special Faculty) of the school.

PAYMENT OF BILLS

Bills for the fall quarter are payable at the time of registration. Bills for the winter and spring quarters are payable at the Cashier's office on the first class day of the quarter, and thereafter according to a schedule announced. Failure to pay or to make proper arrangements for payment results in the assessment of an extra fee of $5.00.

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* Students transferring from other institutions should have transcripts of their former records sent at least two weeks in advance to the Dean of Admissions, and should present themselves for registration on Monday, September 23, 1940. Freshman students also will register on Monday, September 23.

DELAYED REGISTRATION

The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for delayed registration. *No appeal from the imposition of either attendance probation or the late registration charge of five dollars will be granted, unless the delay is due to circumstances clearly beyond the student's control.* Such appeals must be made in writing to the Dean of Administration, must show clearly good and sufficient justification for the delay in registering, and must bear the approval of the Dean of the division of the University in which the appellant is enrolled.

ARRANGEMENT OF COURSES

Attention is called to the reduction of credit for freshman and sophomore courses when taken late in the student's career. Only half credit is allowed if a regular freshman course is taken after a student begins his seventh quarter or if a regular sophomore course is taken after he begins his tenth quarter.

No student will be allowed without the permission of his Dean to take fewer than fifteen credit hours a week. A load up to eighteen credit hours a week may be taken without any restrictions; one of nineteen or twenty credit hours a week requires a scholastic average of at least C in the preceding quarter; one of twenty-one or more credit hours a week requires a scholastic average of at least B in the preceding quarter and the approval of the student's Dean.

A student desiring to change his courses must make written application to his Dean for the desired changes. The application will be considered by the Dean and will be granted only after a careful consideration of the facts in each case. The written permission of the Dean must be presented at the Central Office of Records, room 207, the South Building, and payment must be made of the fee of twenty-five cents for each item of change. *Changes in registration are limited to the first seven calendar days of a quarter.*

ASSIGNMENT OF ROOMS

The rooms in the University dormitories are assigned to students by the Cashier in the order of application, subject to the special regulations given below.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in the University dormitories.

In order to retain his room for the next scholastic year, a student must file with the Cashier before May 25 an application and a deposit of $6.00 as an option. Double rooms must be applied for by both intending occupants. The rooms thus applied for will be retained until September 1, when first payment of rent is due. The option deposit will be forfeited in case the applicant does not himself pay the rent and occupy the room. Rooms not applied for or made vacant by failure to pay at the proper date will be assigned in the order of application. The rent is payable in three installments, due September 1, January 1, and March 15.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture in his room or to the room.

No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

CONDUCT

By order of the Board of Trustees the Faculty is directed to discipline or dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form (presence at hazing is regarded as participation), or to be guilty of dissolute conduct. See also Student Government, page 44.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism may be required to leave the University.

Students, unless *bona fide* residents of Chapel Hill, when suspended from the University for disciplinary reasons, must leave the campus and Chapel Hill within forty-eight (48) hours or forfeit the right to readmission at any time.

ATTENDANCE

Due to the policy under which courses are given in the University, namely lectures, daily work, quizzes, and short final examinations, regular attendance upon meetings of classes is considered very important and is considered a student obligation.

Beginning with the spring quarter, 1936, the responsibility for attendance was placed in the hands of the instructors in the various courses. Departments may make uniform regulations governing attendance if they so desire.

Instructors in all cases are expected to keep a daily record of attendance and to report to the Central Office of Records the name of any student who has been absent three consecutive meetings of a class.

Instructors are expected to warn a student who has been absent more than seems reasonable. Further absences give instructors the right to request the Dean concerned to exclude such a student from the class. If the Dean knows extenuating circumstances he must confer with the instructor before the student is actually excluded.

Any student who has attained the honor roll during two successive quarters shall be exempt during the ensuing quarter from the regulations governing absences and shall be exempt thereafter as long as that student maintains the honor roll average. To the foregoing regulations there are to be the following exceptions: (a) the privilege of absences does not apply to requirements of attendance relative to written or laboratory work or to quizzes and examinations; (b) the privilege earned by the student shall be forfeited if that student is absent without excuse immediately before or immediately after holidays.

Departments or instructors may, on occasion, permit a student to attend or engage in an educational activity other than that of the class as a substitute for class attendance.

The Deans are expected to use their best judgment in the matter of allowing a student to remain in residence after having been dropped from one or more classes. The Deans will also cooperate with the instructors in bringing students to a realization of the consequences of excessive absences.

It is the duty of instructors to report to the Central Office of Records all absences occurring at the *beginning of each quarter and all those occurring immediately before and immediately after holidays. The penalty for such absences is loss of membership in the student body. Favorable action (for good cause) by the Committee of Deans is necessary before the student may be reinstated in the University; moreover a fee of $2.50 is charged the student for each such absence, with the proviso that the total fee shall not exceed $7.50.

Absences from class attendance for cause may be excused. Such absences are those due (a) **to participation in recognized University activities, as those of the Glee Club, Debating and Athletic teams, and the Playmakers when occurring away from Chapel Hill, such excuses to be issued by the Recorder; (b) ***those due to actual illness, certified to by the physician who attended the student in person during illness; and (c) **those due to emergencies caused by extraordinary circumstances, when excused by the Dean of the School concerned.

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* The Departments are expected to cooperate with the Deans in getting classes accurately organized by remaining on duty the whole day for the first few days of each quarter.

** Such authorized leaves of absence must be secured in advance.

*** Excuses for illness must be reported within forty-eight hours from time of the beginning of the illness.

The Central Office of Records will furnish to the student upon request and for the information of his instructors a record of days he has been excused.

Any student who is absent from a quiz or an examination at the appointed time thereof without excuse as defined above will not be permitted to make up this quiz or examination. Any department may impose a fee not exceeding one dollar ($1.00) upon the student having excuse for such absence for the privilege of taking a special quiz or examination or a make-up laboratory exercise.

No student unless exempted by having attained the honor roll privileges of optional attendance shall be given credit in the University for any course unless that student has attended at least 75 per cent of the class meetings of the course during the quarter in which it has been taken by him.

Departments may require students who have been absent, whether the absences are excused or not, to make up work covered during the periods of absence.

Other Regulations Governing Attendance

The grade of a student who quits a course without the permission of the Dean of his College or School is recorded officially as F.

The grade of a student who drops or is dropped from a course in which he is failing at that time shall be recorded as F unless, in the judgment of his Dean, the reason for his failure be circumstances clearly beyond his control.

No student is allowed to absent himself from the University without written permission as provided above. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

EXAMINATIONS

Regular written examinations are required at the end of each quarter in all courses except those the nature of which is such as to make written examinations unnecessary. *Approval of such exceptions must be secured in advance from the Dean of the College of Arts and Sciences.*

Comprehensive examinations are required by action of the General Faculty, with the following provisions:

a. Each candidate for a degree in the College of Arts and Sciences or in the School of Commerce shall be required to pass a comprehensive examination before receiving a degree.

b. Only one comprehensive examination shall be given by a Department in each quarter and one in the Summer Session.

c. Each comprehensive examination shall be written unless otherwise approved by the University Committee on Comprehensive Examinations.

d. Any student is eligible to take a comprehensive examination, who has completed all but seven of the courses required for the degree, has passed at least four courses or their equivalent in his major subject or special program of study, has obtained the permission of his adviser, and has registered for the examination on the regular registration form at the beginning of the quarter.

e. A student shall not be permitted to carry more than three full courses in the quarter in which he takes a comprehensive examination, except with the written permission of the Dean of his college or school.

f. The passing grade on the comprehensive examination shall be the same as that required for graduation, that is, between C and D.

g. Comprehensive examination papers of unusual merit shall be marked "passed with distinction."

h. Each Department shall determine the duration of its comprehensive examinations, within the range of a 6-hour maximum and a 3-hour minimum.

i. A departmental committee of at least two members shall prepare the comprehensive examinations, and a committee of at least two members shall read each examination paper and determine the final grade.

j. In so far as possible, the identity of the student should not be known to the members of the committee who read and grade his paper.

k. Each Department, according to its needs, shall devise some means to help those who have it as their major interest to correlate their "course knowledge" and fill gaps in preparing for the comprehensive examination; and it shall inform all such persons of this service, when they begin their major program.

l. There shall be established a *University Committee on Comprehensive Examinations consisting of one member from each of the Divisions of Humanities, Social Sciences, Natural Sciences, and Commerce, elected for three years by the faculties of the respective Divisions; a chairman appointed by the Dean of Administration for 3 years; a specialist in the technique of formulating and administering examinations, appointed for three years by the Dean of the College of Arts and Sciences; and the Dean of the College of Arts and Sciences and the Dean of the

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* For list of members see page 34.

School of Commerce, *ex officio*. This committee shall function largely in an advisory capacity; but it shall have the duties of studying the operation of the system of comprehensive examinations and making recommendations from time to time to the Divisions or the faculty, of establishing the dates of the four quarterly examinations and having them published annually in the University Catalogue of Events, and of calling together at least once each year all heads of Departments, or their designated representatives, for a discussion of the whole matter of comprehensive examinations. Each Department shall deliver promptly to the Committee for filing and for faculty examination, a copy of each comprehensive examination and a report of the results of each examination showing the failures and passes and whether it was the first, second, third, etc., examination taken by the student. Within six months from the date of each examination, the Department shall deliver the examination papers to the Committee.

A special examination may be taken by a student, who has received the condition grade (E), at the period of the special examinations in September. Provided he has no conflict with a course regularly taken by him in the quarter, such a student may take the examination with the class in the same subject at any regular quarter examination within a year after he has made the grade E. A senior who makes a grade of E in his last quarter of residence is allowed to take a special examination for removal of the E not earlier than three days after his last examination in that period of examinations. The grade E becomes F if the student fails to pass the reexamination whether taken in September or at some other time.

Under no circumstances may a student stand a special examination to remove a condition grade (E) between the first and the last class days in any quarter unless such examination is requested by the Committee of Deans.

Special examinations for students who have been officially excused from regular examinations on account of sickness or have been absent on account of some necessary cause and therefore excused may be held at suitable times fixed by the Recorder and the instructors concerned. Such examinations must be taken within twelve (12) months of the date of absence.

To be entitled to take a special examination within a quarter, or at the September period, or at a regular quarter examination period, the student is required to file with the Recorder at least one week prior to the time for the examination a written notice that he desires to take such examination.

Final examinations except in laboratory practice may not be held at any times other than those specified in the preceding regulations.

No examinations may be held later than 6:30 p. m.

All examinations must be held in Chapel Hill.

Examinations should be limited to a period of two hours. In courses in which a considerable portion of the examination is of a *practical* nature the instructor may extend the time in his discretion.

No students other than the following may take the examination in any course: 1st—regularly enrolled members of the class whose names have been reported from the Recorder's office to the instructor as having registered in due form for the course; and 2nd—those whose names have been reported from the Recorder's office as having the right to take special examinations on that course.

Students absent from an examination without an official excuse or present and failing to submit examination papers are reported "absent." This mark is equivalent in every respect to grade F or failure, and is so recorded in the office of the Recorder.

Each student is required to subscribe his name to the following pledge or its equivalent on every paper: "I hereby certify that during this examination I have neither given nor received aid." The instructor should not report a grade for any student whose examination paper lacks this pledge.

Papers handed in at a special examination by students who have been officially excused from the regular examination will be graded; all others will be marked "passed" or "failed."

Schedules of examinations at the ends of the terms and in September are to be so arranged that examinations set for the last day of the period shall be set for the first day of the next period.

The order of examinations for the removal of conditions and for advanced standing in September, 1940, will be as follows:

Thursday, September 19

8:30 a. m.	Economics Romance Languages Zoology	11:00 a. m.	Education English German
2:00 p. m.	Geology Psychology Rur. Economics	4:30 p. m.	Compar. Literature Greek Physics Sociology

Friday, September 20

8:30 a. m.	Botany Latin	11:00 a. m.	Chemistry Commerce Philosophy
2:00 p. m.	Music History Mathematics Polit. Science		

STANDING

After the close of each quarter reports of the standing of all students in all their studies are sent to parents or guardians. The reports are based upon the following system of marking:

Grade A, Excellent.
Grade B, Good.
Grade C, Fair.
Grade D, Barely passed.
Grade E, Conditioned.
Grade F, Failed.
*Grade I, Work incomplete.

When a student has shown marked deficiency in the use of English in any course, his grade in that course may have attached a "composition condition" (cc). This condition, while not affecting a student's eligibility for continuance in the University, must be removed before final credit will be allowed. A student who receives such a condition must take a diagnostic test before the middle of the following quarter, and his registration for the second quarter may not be completed until he has taken the test. If this test shows that the student needs to take a course or laboratory work to remove his condition, he must proceed actively and systematically toward the removal of his condition in the second quarter following that in which he receives it. The Secretary of the Committee on Conditions in English Composition, Dr. J. O. Bailey, is to determine those who need remedial work.

A student must attain a grade of D to pass in any study, Grade E indicates that the student is conditioned but may remove the deficiency by special examination as explained above. Students receiving grade F must repeat the study to receive any credit for the same.

Any student, after conference with the instructor concerned, may appeal from a "course grade" provided the appeal is presented in writing to the Dean of Administration within thirty regular college days after the grade has been recorded. The Dean of Administration, after bringing the appeal to the attention of the head of the department concerned, will refer it to the Administrative Board of the College or School in which the student is enrolled. The Board's decision shall be final.

To be eligible for graduation a student must secure the grade of C or higher on at least half of his work.

Interpretation of this ruling:

(1) A student who completes the required courses but with grades which do not entitle him to his degree will be allowed to take additional *junior-senior* courses until such time as he meets the requirement of the rule.

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* The grade I may be converted into one of the other grades by completing within a period of twelve months such additional assignments as may be required by the instructor in the course. A grade of I not so converted becomes F.

(2) Transfers with advanced standing will come under this rule only for those courses pursued at this institution; but it is expected that at least 50% of the work offered for advanced credit shall be of grade C (one degree above the passing mark) or better.

A student to be ranked as a Sophomore must have passed at least thirty-six quarter hours; to be ranked as a Junior, at least seventy-eight quarter hours; to be ranked as a Senior, at least one hundred thirty-six quarter hours.

Undergraduate students, in order to be eligible to continue in the University, must qualify according to the following requirements: A freshman must pass some *academic work in each quarter, and a total of at least thirty quarter hours before beginning his fourth quarter. After the freshman year (three quarters) a student must pass at least ten hours each quarter. Ineligible persons are not to be considered members of the University. In case a student has been handicapped by circumstances beyond his control, he may appeal for readmission to the Committee of Deans by means of a written petition stating his case and sent to the Registrar's office. Deficiencies may be made up by correspondence work or in the summer session, in which case only credits exceeding five hours credit so obtained shall count for readmission. In three quarters, therefore, a freshman must pass at least thirty hours, or thirty-five if he is making up a shortage by correspondence work or in the summer session; and one above freshman year similarly must pass at least thirty hours or thirty-five if he is making good a deficiency by correspondence work or in the summer session.

No student who fails to qualify under the above regulations may be readmitted to *any division* of the University except by a special vote of the faculty or a delegated committee of the faculty. This delegated committee of the faculty will meet at 10:00 a.m. on the *last* Saturday in July, at 10:00 a.m. on the second day *before* the stated registration day at the opening of each quarter, and at 2:30 p.m. on the second day *after* the stated registration day at the opening of each quarter to consider written petitions of students who have definite and convincing reasons on which to base a request that the rule be waived. All petitions, except those of students in Law, Medicine, and Pharmacy, should be sent to the Registrar *in writing* and, to be considered, must be in hand *before* the stated meetings for that quarter in which the student seeks readmission. *Notice is given that the rule may be waived only once for any individual.*

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* For the purpose of this rule freshman courses in hygiene and physical education are not included in "academic work," but they may be counted in the total of thirty quarter hours required in three quarters. In case a freshman is exempt from the requirements of physical exercise, the number thirty is reduced by one quarter hour for each quarter he is exempt.

WITHDRAWALS

If a student wishes to withdraw at any time other than the end of a quarter, a formal withdrawal, which is prerequisite to honorable dismissal or reentrance to this institution, must be approved by the Dean to be valid. Such a withdrawal will be approved only after full investigation of the circumstances and after the lapse of twenty-four hours from the time the first application is filed with the Dean. The withdrawal form after approval by the Dean must be filed promptly with the Recorder in room 207, the South Building.

If a student withdraws after the mid-term and is reported as below passing in two or more courses, that quarter will be counted as a quarter in residence in all computations of his requirements for readmission. If a student withdraws before mid-term, it will be left to the discretion of the Dean as to whether or not that quarter is to be counted as a quarter in residence. The Dean's verdict will be indicated specifically on the form used for withdrawal.

GRADUATION

Each senior will be officially informed by his Dean in September of all deficiencies standing against him.

FRATERNITIES

GENERAL REGULATIONS. Students may join fraternities after registration at the opening of any quarter or term provided they are eligible under the special regulations of the Faculty. Before a fraternity may initiate a pledge it must make written inquiry of the Assistant Registrar as to the eligibility of such pledge and must secure a written certificate of eligibility. Pledging of a student to join a fraternity is not allowed until he has been in the University a specified length of time as follows: If he matriculates for the first time in the University in the summer session or in the fall quarter, he may not be pledged until the regular pledge date for the fall quarter; if in the winter quarter, until a similar date in that quarter; if in the spring quarter, until a similar date in that quarter. No student may be pledged during the summer session; but, if a student remains in the summer session for the full twelve weeks, it may be counted for him as a regular quarter towards meeting the requirements as to residence. A student entering the University with advanced standing, whether he enters an academic or a professional school, may not be pledged until the regular pledge date after the date of his matriculation in this institution; but in no case may a student be pledged during the summer session.

TRANSCRIPTS OF RECORD

Honorable dismissal has reference to conduct and character only. It will not be granted unless the student's standing as to conduct and character is such as to entitle him to continue in this University. Furthermore, in every statement of honorable dismissal full mention will be made of any probation, suspension, or other temporary restriction imposed for bad conduct which is still in force when the papers of dismissal are issued.

Statement of record has reference to the recorded results of a student's work in the classroom. It will in every instance contain all the important facts pertaining to the student's admission, classification, and scholarship. In particular, no partial or incomplete scholastic record (for example, with failures omitted) will be given without clear evidence that it is partial or incomplete. If the student's scholarship has been such as to prevent his continuance in this University or to render him subject to any probation, suspension, or other temporary restriction which is still in force at the date of the record, a plain statement of any and all such facts will be included. Such information will be given as will make clear the system of grades employed, the number of exercises a week devoted to each course, etc.

Transcripts of record, except the first which is furnished without cost, will be made upon payment of one dollar ($1.00) for each copy desired.

INTERCOLLEGIATE ATHLETICS

The University is a member of the Southern Conference and its rules necessarily conform to the rules of the Conference. With the exception of minor regulations the rules of the Southern Conference at the present time are as follows:

ARTICLE VII. RULES OF ELIGIBILITY APPLICABLE TO ALL SPORTS.

Rule 1. *Bona Fide Students.* All regularly matriculated students of a member institution, which holds membership in its regional educational association, shall be eligible for participation in intercollegiate athletics, except as hereinafter provided.

Rule 2. *Academic Proficiency.* (a) Participation in intercollegiate athletics by a graduate student, or a student enrolled in a school of law or medicine, shall be predicated upon a statement from the dean of said graduate or professional school that the student's academic record is satisfactory.

(b) No undergraduate student shall be eligible for varsity athletics until he has passed twenty-four (24) semester-hours or thirty-six (36) quarter-hours. After an undergraduate student has become eligible for athletics, he must, to be eligible for any ensuing year, have passed twenty-four (24) semester-hours or thirty-six (36) quarter-hours of the previous year—provided, however, that hours for the second and third quarters or second semester shall be regulated by the separate institutions.

For the purpose of the academic requirement, the previous year means the preceding two semesters of residence or the preceding three quarters of residence—work taken in summer schools to count in this connection.

RULE 3. *One-Year Residence Rule.* No student shall participate in varsity athletics in any member institution until after the expiration of twelve months from the date of his matriculation there and until he has been in residence there one full academic year.

RULE 4. *Returned Students Formerly Enrolled.* No student having been a member of any athletic team of his college during any year and having been in attendance less than one semester or two quarters shall be permitted to participate in any intercollegiate contest thereafter until he shall have been in attendance one semester or two quarters of his next academic year.

RULE 5. *Special Students.* No special student is eligible to participate in freshman or varsity inter-collegiate athletics.

RULE 6. *Transfer Students.* (a) Transfer students are eligible for varsity athletics only after they have met the requirements of the One-Year Residence Rule, and then only in those sports in which they did not participate in an inter-collegiate contest, freshman or varsity, in the college or colleges from which they transfer.

(b) Transfer students who are graduates of junior colleges, normal schools, or other institutions, which are accredited as such by the regional educational accrediting associations*, not offering a standard four-year course, may be permitted to engage in varsity athletics immediately; others who are not graduates of such accredited junior colleges, etc., must comply with the One-Year Residence Rule and the five-year Limit of Participation Rule dating from the time of first matriculation in the said junior college, etc.

(c) Students who have been in the preparatory department of a junior college, who have taken no college work but have played on the junior college teams shall not be eligible for freshman participation at Conference institutions.

RULE 7. *Limit of Participation.* Participation in inter-collegiate athletics shall be limited to one freshman and three varsity years over a period of five consecutive years counting from the date of first matriculation.

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* For this region the Southern Association of Colleges and Secondary Schools is the agency.

RULE 8. *Freshman Teams.* Freshman teams shall be composed of members of the freshman class only who shall not compete as such for more than one year, and shall be eligible under the rules of this Conference, except the One-Year Residence Rule.

No freshman who has been a student at any other college shall be eligible to compete on a freshman team of a Southern Conference institution.

RULE 9. *Compensation.* (a) No person who receives any compensation from his institution for services rendered by way of regular instruction shall be allowed to participate in any inter-collegiate contest.

(b) No person shall be permitted to participate in any inter-collegiate contest who has ever used his knowledge of athletics or his athletic or gymnastic skill for pecuniary gain; a specific exception is made in the case of any student who has worked in connection with a playground or a summer camp where the requirements do not call for a man with technical preparation in physical training.

RULE 10. *Professionalism.* Any college athlete who signs a contract or enters into any agreement, explicit or implicit, with a professional team shall not be eligible for inter-collegiate athletics.

No student who has played on a baseball team recognized by the National Commission of Baseball Clubs shall be eligible for inter-collegiate athletics.

RULE 11. *Outside Participation.* (a) A student who, while the college is in session, plays on an athletic team other than that of his college, becomes ineligible for inter-collegiate contests in the sport or sports concerned for one year from the date of the infraction of this rule.

(b) No student who participates in a boxing match where spectators pay for admission, directly or indirectly, except as the representative of the institution in which he is enrolled, shall be eligible for inter-collegiate athletics—National Championship Olympic Tryouts and Olympic Games being excepted from this provision.

(c) No athlete who has received compensation of any kind, including money for expenses, for participating in a boxing match shall be eligible for inter-collegiate boxing.

RULE 12. *Eligibility Certificates.* Before any student can compete in any inter-collegiate contest he must fill out an eligibility blank furnished by the Conference which blank shall be kept on file by the Faculty Chairman of Athletics and a copy sent to the President of the Southern Conference.

RULE 13. *Scholarships, Jobs, Subsidization, Athletic Staff, and Audit.*

SECTION I. It has been and is an accepted part of the provisions of all inter-collegiate athletic conferences that an athlete may be awarded a scholarship, loan, job, or other financial aid on his merits as a person and student on the same basis as other students. The Southern Conference pledges itself to support this policy and holds that member institutions must accept the responsibility for the proper conduct of inter-collegiate athletics in their respective institutions.

Any scholarship, loan, job, remission of charge, financial aid, or other material considerations within the direct control of the institution, to be open to an athlete must fulfill the following requirements:

(1) Be awarded on the basis of character, scholarship, financial need, competence for any specific task, and general merit.

(2) Be awarded only by a representative and responsible faculty committee, or committees, in the respective fields of scholarships, loans, and jobs.

SECTION II. a. No student who is on scholastic or conduct probation or its equivalent is eligible to represent the institution in an inter-collegiate contest.

b. All these scholarship requirements shall in advance of competition be certified to by the appropriate officer as fulfilled by all members of the team representing the institution.

SECTION III. a. No member of the athletic staff or physical education department shall receive for his instructional services at his college any money or other valuable consideration except through the college authorities.

b. The athletic director and coaches shall be chosen and their salaries fixed by the president or on the recommendation of the president by the board of control (e. g. trustees, regents, visitors) according to the custom of the institution.

SECTION IV. All questions of eligibility involving either the letter or the spirit of the Conference rules shall be treated as matters of confidence between the institutions concerned.

SECTION V. All athletic accounts shall be audited regularly by an auditor appointed by the president of the institution and be open for inspection by officials whose names appear in the current printed Constitution and By-Laws of the Southern Conference.

Special Rules of the University of North Carolina

In addition to the rules of the Southern Conference the following local rules apply to all students participating in intercollegiate athletics:

1. No student will be allowed to take part in athletic contests entailing absence from the University whose parents (or guardians) object to such participation.

2. There shall be a scholastic requirement of thirty-six (36) quarter hours, half C grade or better, during the preceding three quarters of residence, or forty (40) quarter hours, half C grade or better, if summer school or correspondence work is necessary in addition to three regular quarters.

3. No student shall play upon any athletic team except after physical examination by the University Physician.

4. Before any student can become a member or a substitute member of any athletic team of the University and take part in any inter-collegiate contest he must make application to the Faculty Committee on Athletics and secure the endorsed approval of that committee on his application. It shall be the duty of the Faculty Committee on Athletics to have the Registrar of the University indorse such application to the effect that the applicant is a registered student of the University and has completed the scholastic requirements.

5. The faculty regards the professionalization of college athletics as a menace to sound education and wholesome sportsmanship. In line with this belief alumni and friends of the University are urged to submit to responsible committees of the faculty for approval under their regular standards any assistance extended or proposed to be extended to athletes or prospective athletes.

6. To be eligible for inter-collegiate athletics in any quarter a student must have passed during his preceding quarter at least 10 quarter hours or the equivalent.

7. No student shall be allowed to participate in preliminary training, before the opening of the University in the fall who is at the time ineligible to enter the University.

8. No team will be allowed to be absent from the University more than seven lecture days during any quarter.

REGULATIONS GOVERNING DRAMATIC, MUSICAL, DEBATING, AND SIMILAR ORGANIZATIONS

1. No student will be allowed to take part in dramatic, musical, debating, oratorical, or similar events entailing absence from the University whose parents (or guardian) object to such participation.

2. Any student who was in attendance at the University during a previous quarter must have passed, during his last quarter of attendance, satisfactory examinations upon at least ten quarter hours or their equivalent, before he will be allowed to represent the University in any dramatic, musical, debating, oratorical, or similar event of a public nature.

3. Any student reported during the course of any quarter as deficient in a majority of his classes may be prohibited by the Dean of his school from participating in any dramatic, musical, debating, oratorical, or similar event until such deficiency is made good.

4. There shall be a scholastic requirement of thirty-six (36) quarter hours, half C grade or better, during the preceding three quarters of residence, or forty (40) quarter hours, half C grade or better, if summer school or correspondence work is necessary in addition to three regular quarters.

5. No team or club will be allowed to be absent from the University more than seven lecture days in any quarter.

PART THREE—THE COLLEGES AND THE SCHOOL OF COMMERCE

THE GENERAL COLLEGE

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt, *President of the Consolidated University*
Robert Burton House, A.M., LL.D., *Dean of Administration*
Corydon Perry Spruill, Jr., A.B., B.Litt. (Oxon.), *Dean*

*THE ADMINISTRATIVE BOARD

Allan Wilson Hobbs, Ph.D.
Dudley deWitt Carroll, M.A.
Francis Foster Bradshaw, Ph.D.
Sturgis Elleno Leavitt, Ph.D.
Arthur Melville Jordan, Ph.D.
Arthur Palmer Hudson, Ph.D.
Charles Baskerville Robson, Ph.D.
Edwin Carlyle Markham, Ph.D.
Oliver Kelly Cornwell, M.A.
Henry Roland Totten, Ph.D.

THE COMMITTEE OF ADVISERS IN THE GENERAL COLLEGE

Guy Berryman Phillips, A.B.
**Michael Arendell Hill, Jr., A.M.
**Cecil Johnson, Ph.D.
Shipp Gillespie Sanders, A.M.
Floyd Harris Edmister, Ph.D.
George McFarland McKie, A.M.
William Smith Wells, Ph.D.
William Decatur Perry, D.Ed.
Fred Kingsley Elder, Ph.D.
Almonte Charles Howell, Ph.D.
Lee Roy Wells Armstrong, A.B.
Samuel Thomas Emory, Ph.D.

GENERAL STATEMENT

During his first two years in the University at Chapel Hill every student is a member of the General College unless he enters the School of Pharmacy. The studies in the General College are intended: (1) to offer an experience in a sufficient variety of basic and liberal subjects to constitute the foundations of that general education which is regarded as essential to balanced development and intelligent citizenship, (2) to supply opportunities for the discovery of intellectual interests and occupational aptitudes, and (3) to provide preparation for later collegiate or professional training. These studies are, specifically, English composition and literature, a foreign language, natural science, and social science for two years, mathematics or Latin or Greek for one year, and one other prescribed or elective subject for one year. The options within these requirements appear below in the summaries of the several programs. The student thus takes certain courses basic to all programs of study and in addition chooses other courses in anticipation of advanced work in special fields or because of other personal considerations. If he knows what his later program of study is to be he can in nearly all cases choose a subject in that field as part of his work in the General College. If he does not know what his program is to be, he may take the general program leading to the degree in Liberal Arts or in Commerce with the assurance that he can reach a decision during his undergraduate career and make necessary changes with a minimal loss of time.

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* The Dean of Administration and the Registrar are *ex officio* members of this Administrative Board.

** Advisers' representatives on the Administrative Board.

The members of the General College are of four distinguishable but overlapping types: (1) Those who will proceed to the usual academic degrees at the end of four years, (2) those who will enter professional schools after three or four years, (3) those who are preparing for *teaching or scientific investigation or both, (4) those who will take less than a complete academic program. Through the Advisers the General College attempts to assist each student in appraising his qualifications and objectives and, within the limits set by its standards and resources, undertakes to adapt its offerings to his interests and needs. Thus a deficiency in a foreign language may be overcome by taking the elementary course which meets six times a week. In the converse case of mastery in preparatory school or otherwise of work offered in college, the student is encouraged to meet the collegiate requirement by examination. Those who have responsibilities which limit the time available for studies are allowed to take less than the normal academic program. Those who attain distinction in the normal registration are permitted to take additional courses so as to enable them to enrich their programs or to graduate at an earlier date. By such means the College encourages each student to start with the work which he is prepared to do and to go forward with it in the way that is most appropriate in his individual case.

Upon satisfactory completion of the work of the General College, the student will normally enter one of the divisions of the University which administer the curricula of the junior and senior years. *The College of Arts and Sciences* offers curricula in (1) the usual liberal arts subjects, (2) teacher-training, (3) journalism, (4) chemistry, geology, physics, and medicine (each with its special Bachelor of Science degree), and (5) pre-law, pre-medical, and pre-dental programs, with and without the A.B. degree. *The School of Commerce* presents curricula preparatory for the various careers in (1) business, (2) foreign trade and the consular service, and (3) law.

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* Anyone who plans to prepare for teaching should immediately consult with the Chairman of the Division of Teacher Training.

Office of Pre-College Guidance

The Office of Pre-College Guidance, as a part of the General College, seeks to supply high school students with information about the conditions of university life; but inquiries concerning and applications for admission should be addressed to the Associate Registrar of the University. The staff of the Office welcomes personal conferences with prospective college students.

Special Students

Mature students, twenty-one years of age or older, may be admitted to The General College as special students not candidates for a degree. Such students are ordinarily admitted only after a conference with the Dean, and are on probation to pass all their work each quarter.

ADMISSION TO THE GENERAL COLLEGE

WOMEN: By order of the Board of Trustees women are not eligible for admission to the General College.

AGE: All applicants for admission to the General College must be sixteen years of age before or by the actual date of their first registration.

CHARACTER: All applicants for admission to the University, including the General College, are required to furnish satisfactory evidence of good character as prerequisite to consideration for admission.

HEALTH: All General College registrants are required to report to the University Physician for a physical examination immediately before the period of their first registration. Trustee regulations make it mandatory that all matriculates satisfy the University Physician that they have been successfully vaccinated against smallpox. Those unable to furnish such evidence, or who have never been vaccinated at all, will be vaccinated here. Since a smallpox vaccination sometimes disrupts one's normal activities for several days, it is highly desirable from the applicant's standpoint that this detail be attended to before he presents himself for registration.

Admission to Freshman Standing

BY CERTIFICATE: Formal application for admission to freshman standing, which is generally understood to mean candidacy for a baccalaureate degree, is made by submitting 1) personal data called for on an application form, and 2) a satisfactory statement of high or preparatory school achievement. Such a statement is expected to show 1) the completion of an accredited four-year high or preparatory school course, or its equivalent, which ordinarily means graduation; 2) fifteen units acceptable to us, including our minimal requirements as outlined below; and 3) that the applicant has attained the certifying average of the school last attended. Blank applications for admission may be secured by writing the Associate Registrar who, upon approving one's application, will undertake to secure directly from the proper official of the school graduating the applicant an appropriate certification of the applicant's record. Satisfactory evidence of one's eligibility for admission should be in the hands of the Associate Registrar at least fifteen days before the opening of the quarter in which it is desired to enroll.

Since the University operates on a basis of selective admissions in so far as non-North Carolina citizens are concerned, the above paragraph having to do with admission to freshman standing by certificate should be supplemented as follows: in addition to the above stated requirements, the procedure involves the writing of a scholastic aptitude, or psychological, test *and* a personal conference between a representative of the University and each candidate for admission. Exceptional circumstances now and again make it advisable to waive these additional requisites in the case of out-of-state candidates, but such circumstances do not often prevail. Information covering these additional requirements will be gladly furnished to interested persons upon request.

Summary of Admission Units

The fifteen-unit minimum offered for admission should include the following *required* distribution, except as may be provided for in the explanatory notes appearing immediately after the section headed *Admission by Examination*:

English (four years)	4	units
Algebra (one and one-half years)	1½	units
Plane Geometry (one year)	1	unit
Foreign Language (two years in *one* language)	2	units
*Social Science (one year)	1	unit
Natural Science (one year with laboratory)	1	unit
Electives	4½	units

ELECTIVES: It is strongly urged and recommended that elective units be made up from the fields of mathematics (second-year algebra for a full year, solid geometry for a half year, and plane trigonometry for a half year), social science (ancient history, mediaeval and modern history, modern history, English history, American history, American history and civics as a combination, civics, sociology, and economics), foreign language (Spanish, German, French, Latin, and Greek, with not fewer than two units in any one), and science with full laboratory (chemistry, physics, biology, botany, zoology, geology, physiography, and general science). One unit is allowed for a full year's work in any one of the named sciences, provided lectures or recitations *and* laboratory work are involved; if no laboratory work is included, any one of the named sciences, taken for a full year, carries only a half unit credit. *A credit of less than a half unit will not be allowed in any subject.*

In addition to credits from the fields specified immediately above, an applicant may offer subjects that are vocational in nature. Ordinarily no more than three units in vocational work may be credited; but the officer of admissions may, in his discretion, allow credit to the extent of four vocational units. It must in every instance be evident that such credits have been counted towards the high or preparatory school diploma. The officer of admissions has been granted discretionary authority to determine what may or may not be acceptable.

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* Preferably History of the United States.

For certain curricula the requirement in foreign language is more precise than may be apparent from the statements made above. The courses of study leading to the following degrees require the language indicated: S.B. in Commerce and S.B. in Geology, Spanish or German or French; S.B. in Medicine, German or French; S.B. in Chemistry, German; and S.B. in Physics, German or French. It should be remembered that the *general entrance requirement* in foreign language may be satisfied by a two-unit offering in Latin or Greek, but that at the beginning of a student's first year in residence he will be required to take up that language which is appropriate for the study program of his junior and senior years. No degree credit will be allowed for the elementary part of the foreign language chosen.

Although no applicant will be admitted on certificate with fewer than fifteen acceptable units, the officer of admissions will, in general, be primarily concerned with substantial evidence of a serious, well-defined purpose on the part of the applicant and with his apparent ability and determination to utilize effectively the educational and cultural opportunities available to all at the University.

The right is reserved to reject the application of any applicant who ranked in the lower half of his high or preparatory school graduating class. This right will in general be exercised unless the applicant is able to offer weighty and convincing evidence tending to prove that there is a strong probability of academic success in work of university or college grade despite his failure to perform satisfactorily from the standpoint of scholarship in his high or preparatory school. For cause the Board of Admissions may disapprove an application for admission.

Provision is made for students who present credits in excess of the fifteen required units to take substantiating examinations for advanced standing in whatever subjects the Dean of the General College may deem advisable. This opportunity is open to those who have taken in high or preparatory school work over and above the minimal entrance requirements which is approximately equivalent to some of the freshman-year program in the General College. The passing of such examinations will enable the student to take during his first year the next course in the subject on which he is examined or to take other subjects not ordinarily pursued by freshmen. Formal application for examinations of this sort should be made to the Dean of the General College sufficiently far in advance of the date of registration to enable him to arrange for the examinations. For this purpose, fifteen days' notice suffices. No charge is made for these examinations.

ADMISSION BY EXAMINATION: Persons desiring admission to the General College who are unable to offer satisfactory evidence of eligibility on the basis of a certificate from an accredited school may qualify for admission by passing our entrance examinations. The tests used for this purpose are designed to determine the examinee's ability in general and his fitness for college work. The form of the examination actually used is comparable to the tests of college aptitude and achievement in previous studies furnished by the American Council on Education.

Entrance examinations are held on the first Saturday in June and may be arranged for on request immediately before the opening of the fall, winter, and spring quarters. As a rule these examinations may be completed within one day, the results tabulated, and a determination of the examinee's success or failure made and announced. Sample copies of previously given examinations are *not* available for distribution. A fee of one dollar is charged each person taking the entrance examination, which fee is not refundable.

Applicants seeking admission to the General College on the basis of preparation secured under the supervision of private tutors must in every instance qualify on the basis of our entrance examination. Certificates attesting to one's preparation in this wise are not *per se* acceptable, but are desired as evidence of work done.

The University is cooperating with the Commission on the Relation of School and College of the Progressive Education Association. During the course of the eleven-year experiment being conducted by that Commission, students recommended by member schools will be accepted for admission to the General College without regard to other entrance requirements.

EXPLANATORY NOTES: (1) Algebra: An applicant who offers only one unit in algebra but who otherwise qualifies for admission may absolve himself from the deficiency in either of two ways: a) he may take our Freshman Mathematics and, if he passes on the first trial, the deficiency is automatically removed; or b) he may, with or without the aid of a private tutor, prepare for a special examination during his first year in residence, to be taken under the supervision of our Department of Mathematics. (2) Plane Geometry: An applicant who is unable to offer the required unit in plane geometry may, if he otherwise qualifies for admission, remove the deficiency in this way: he may, with or without the aid of a private tutor, prepare for an examination during his first year in residence, to be taken under the supervision of our Department of Mathematics. (3) Foreign

Language: An applicant who otherwise qualifies for admission but who is unable to meet the requirement in foreign language may remove the deficiency by taking, and passing satisfactorily, the elementary part of Spanish or German or French or Latin or Greek. These subjects are given during the regular academic year, September to June, and, except for Greek, during the summer session. Generally speaking, one unit in foreign language will not be counted towards the fifteen unit total required to be offered. Since all our undergraduate curricula presuppose admission without deficiencies, it is very desirable that applicants with deficiencies seek to clear these during the summer immediately preceding the fall opening at which they expect to matriculate. *All entrance deficiencies must be removed before registration for one's fourth quarter in residence,* not counting the summer session.

Admission to Advanced Standing in the General College

Persons seeking admission to the General College on the basis of work of college or university grade taken elsewhere are required to present for review and examination properly certified statements covering such work. Such transcriptions of record should be in hand at least fifteen days before the opening of the quarter in which the applicant desires to enroll. Formal application for admission must be made, and blanks for this purpose may be secured by writing the Associate Registrar. For statement of fee to be sent with an application, see footnote under Admission to the College of Arts and Sciences, page 109. Each transcript of record will be evaluated in terms of our General College requirements, and credits allowed may or may not be approximately equivalent quantitatively to the total secured in terms of the curriculum pursued at the college or university from which the applicant seeks to transfer. No credit is allowed for work done at non-standard or non-accredited colleges and universities unless a substantiating examination in each subject for which credit is sought is passed. These examinations must be taken here.

The right is reserved to reject wholly or in part any record submitted in support of an application for admission with advanced standing and to require a validating examination in any or all of the subjects for which credit is desired. Applicants who have failed to maintain a satisfactory scholarship record as distinguished from a record which is poor, or barely passing, or who, for any reason whatever, are ineligible to continue in the institution from which they seek to transfer are advised not to seek admission on any basis to the General College. We do not disregard at any time or under any conditions college or university records in order to admit applicants solely on the basis of their high or preparatory school records. It will be considered a flagrant violation of the honor code if any applicant makes a false statement in his application for admission with reference to previous college or university attendance in order to gain admission on the basis of a high or preparatory school record.

The University is not an accrediting agency. It accepts the accreditation of the North Carolina State Department of Education in so far as high and preparatory schools and colleges, junior or four-year institutions, are concerned. Outside of North Carolina, the University depends upon the accreditation of the departments of education of the various States, upon the accreditation of the state universities or institutions of comparable rank, and upon the accreditation of regional accrediting agencies.

Admission of Non-residents

Applicants from outside of North Carolina, *i.e.*, non-residents of North Carolina, may be required to supplement their applications and certificates or transcripts by a personal interview with a representative of the University, the time and place being arranged upon request from interested persons.

GUIDANCE OF STUDENTS IN THE UNIVERSITY

The University conceives education to be directed toward the best development of each individual. Since no two persons have exactly the same powers and potentialities it follows that no two students can profit equally by the same educational experiences. The University accordingly seeks to study each student in terms of his own background of experience and his own potentialities of interest, ability, and cultural needs. Each student is the special charge of a member of the Committee of Advisers.

Before admission of the student the University obtains from him and his school principal information concerning the applicant's personal history. This information is made the basis of a cumulative personal record of each student. To it are added placement test scores, results of physical examination, grades on courses, record of activities, etc. This record is in the hands of the General College Adviser from the time the applicant is accepted until he completes the General College course. Then it is available to the departmental adviser in the major field of study chosen. Finally this record is available for vocational guidance and for inspection by prospective employers.

In this way the University is making every effort to deal with each student from admission to graduation as an individual personality about whom a definitely responsible adviser always has the needed information. In using this information the personal interest and experience of the adviser may be supplemented in case of special need by members of the General

Administration competent in such special fields as health, financial aid, vocational guidance, mental hygiene, and religious and moral problems.

Because the abrupt transition from the intimate supervision of home life to the greater freedom of campus living creates special difficulties for the freshman, the University is making an added provision for daily contact between individual freshmen and a mature and interested upperclassman or graduate. Twenty-six such resident adviserships have already been established in four dormitories and two fraternities. These resident advisers are carefully chosen, receive a small stipend from the University, and work in close cooperation with the General College staff in their personal contacts with the freshmen for whom they are responsible.

PROGRAMS OF STUDY

With a view to the most effective preparation of those who will proceed to degrees through any of the regular curricula, the General College offers programs of study as follows:

*BACHELOR OF ARTS

Freshman Year

Required:
- English 1-2-3
- Social Science 1-2-3
- Hygiene 1-2-3
- Physical Education 1-2-3

Choose one:
- Chemistry 1-2-3
- Geology 21-22-23
- Physics 1-2-3
- Nat. Science 1-2-3

Choose one:
- Mathematics 1-2-3
- **Greek 11-12-13
- **Latin 11-12-13 or Latin 21-22-23

Choose one:
- **French 11-12-13
- **German 11-12-13
- **Greek 11-12-13
- **Latin 11-12-13 or 21-22-23
- **Spanish 11-12-13

Sophomore Year

Required:
- English 22-23-24
- Foreign Language †21-22-23 (continuing the one chosen in the first year)

Choose one:
- Economics 21-22-23
- Education 41-42
- History 21-22-23
- History 41-42
- History 44-45-46
- Philosophy 21-22-23
- Political Science 31-32-33
- Sociology 21-22-23

††Choose one:
- Botany 41 and Zoology 41
- Botany 41 and 43
- Chemistry 1-2-3 or 4-5, or 31 and 41 (or 42)
- Geology 21-22-23 or 41-42
- Mathematics 21-22-23
- Physics 21-22-23
- Psychology 21-22-23
- Zoology 41 and 42

In addition choose one free elective—3 hours a week for the year.

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* Students who plan to take music as their major subject should consult the footnote under the Department of Music in this catalogue for information concerning their programs for the freshman and sophomore years.

** Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language. In case the student takes Latin, he begins where his preparation places him, making up the credit hours if he enters above Latin 11.

† In German the corresponding courses are 21a-22a, five hours a week each.

†† If Physics 1-2-3 was chosen in freshman year, Physics 21-22-23 may not be chosen in sophomore year.

BACHELOR OF SCIENCE IN COMMERCE

Freshman Year

Required:
- Nat. Science 1-2-3c
- English 1-2-3
- Social Science 1-2-3
- Mathematics 4-5-6
- Hygiene 1-2-3
- Physical Education 1-2-3

Choose one:
- *French 11-12-13
- *German 11-12-13
- *Spanish 11-12-13

Sophomore Year

Required:
- English 22-23-24
- Economics 21-22-23
- Economics 11

Choose three from:
- Commerce 51
- Commerce 66
- Commerce 71
- Polit. Science 51
- Modern For. Lang. (continued)

Choose one:
- Botany 41, 43
- Chemistry 1-2-3 or 4-5
- Geology 21-22-23 or 41-42
- Physics 21-22-23 or 24-25
- Zoology 41-42

BACHELOR OF SCIENCE IN CHEMISTRY

Freshman Year

Chemistry 1-2-3
English 1-2-3
**German 11-12-13
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Chemistry 31, 42, 41
English 22-23-24
***German 21a-22a
Mathematics 21-22-23 or 31-32-33

BACHELOR OF SCIENCE IN GEOLOGY

Freshman Year

Required:
- Geology 21-22-23
- English 1-2-3
- Mathematics 1-2-3
- Social Science 1-2-3
- Hygiene 1-2-3
- Physical Education 1-2-3

Choose one:
- **French 11-12-13
- **German 11-12-13
- **Spanish 11-12-13

Sophomore Year

Chemistry 1-2-3
English 22-23-24
Geography 31-32-33
Mathematics 41, 51, 52

BACHELOR OF SCIENCE IN PHYSICS

Freshman Year

Physics 1-2-3 or 21-22-23
English 1-2-3
**German 11-12-13 or French 11-12-13
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Required:
- English 22-23-24
- Mathematics 31-32-33 or †21-22-23
- ***German 21a-22a or French 21-22-23

Physics 55
Physics 52 or 56
Physics 42 or 54

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* Lacking adequate preparation in any foreign language, the student must take courses 1-2-3. A test for reading knowledge of the foreign language must be passed or the language continued without credit until such test has been passed.

** Lacking adequate preparation in any foreign language, the student must take courses 1-2-3.

† If Mathematics 21-22-23 is chosen, the student must take in addition an elective course of three hours a week through the year; Mathematics 31-32-33 is recommended.

*** Scientific or technical German (24a-25a) may be taken for German 21a-22a.

BACHELOR OF SCIENCE IN MEDICINE

Freshman Year

Required:
- English 1-2-3
- Chemistry 1-2-3
- Mathematics 1-2-3
- Social Science 1-2-3
- Hygiene 1-2-3
- Physical Education 1-2-3

†Choose one:
- *French 11-12-13
- *German 11-12-13

Sophomore Year

Required: English 22-23-24

†Continue one:
- French 21-22-23
- German 21a-22a

Chemistry 31 and 42 and either Botany 41 and Zool. 41, 42 or Botany 41 and Physics 24-25

††Electives 5 or 6 hours.

Note: In order to complete the academic part of this curriculum, the student must complete the third year's work including the courses not shown in the group of sciences just above. See curriculum for S.B. in Medicine under College of Arts and Sciences.

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* Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.

† Note that, if both French and German are taken, the requirement will be met by three quarters of successful work in each; that is, by the completion of 1-2-3 or 11-12-13 French and 1-2-3 or 11-12-13 German.

†† It is suggested that this elective be Philosophy 41 or in history or political science.

THE COLLEGE OF ARTS AND SCIENCES

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., Litt.D., *President*
ROBERT BURTON HOUSE, A.M., LL.D., *Dean of Administration*
ALLAN WILSON HOBBS, Ph.D., *Dean*

*THE ADMINISTRATIVE BOARD

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HARL ROY DOUGLASS, Ph.D.
CORYDON PERRY SPRUILL, JR., A.B., B.Litt. (Oxon.)

GENERAL STATEMENT

Beginning with the year 1935-1936 the School of Education, the School of Applied Science, and the College of Liberal Arts were combined into one College, the College of Arts and Sciences. In addition to administrative simplicity there are certain other values to be expected from the combination. In the case of the School of Education it was thought that under the present arrangement there would be a closer cooperation between all the agencies in the University interested in teacher training, and due to the importance of this question such cooperation is greatly to be desired. We may say then that under the College of Arts and Sciences are grouped the regular Arts courses with majors in the various academic fields, the special Science courses having special Bachelor of Science degrees in Chemistry, Geology, Physics, and Medicine, and all undergraduate teacher training programs.

Students in the College of Arts and Sciences have completed the first two years of college work in this or some other institution of similar standards. Thus only the junior and senior years are represented. In this University the first two years for all students except those in the School of Pharmacy, are in the General College which has a Dean and a corps of Advisers whose purpose it is to see that students get started correctly, and as nearly as possible in line with their aptitudes and interests.

The work of the College of Arts and Sciences is distributed among three Divisions known as the Division of Humanities, the Division of Natural Sciences, and the Division of Social Sciences. Students who know what they expect to study at the beginning of the freshman year or at the beginning of the sophomore year have, through the options and the electives, the opportunity to prepare for almost any desirable specialization in the last two years. There has been set up, moreover, a Division of Teacher Training for the purposes of administration, guidance, and program-making in that field.

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

At the beginning of the junior year a student expecting to enter the College of Arts and Sciences must choose one of the Divisions for his major work. He will then be under the direction of the Head of the Division and an Adviser from the Department of his major subject. Those who plan to teach in secondary schools should seek admission to the Division of Teacher Training described below on page 116 and following. The only students not so placed in Divisions will be candidates for the combined A.B.-L.L.B. degree and special students not candidates for any degree. Such students will be directly under the guidance of the Dean of the College.

It is the general understanding that during the junior and senior years a student in a Division will take about one-third of his work in one Department, one-third in allied Departments in the Division of his major, and one-third as free electives outside the Division. There are variations from the numerical aspects of this rule due to special circumstances and among the Divisions. It is also understood that a student shall have the right to submit a program of his own, which may be at variance with the regular divisional arrangement, to the Head of a Division and, if it is approved by the Advisory Board of the Division, he may follow it towards the appropriate degree. The requirements of the Divisions are explained later under the Divisions themselves, and as has already been said they vary somewhat among the Divisions and from the average figures.

Special attention should be called to the Bachelor of Arts degree with major in Music, to the Bachelor of Arts in Journalism, and to the curriculum in International Studies. In addition to these are the Bachelor of Science courses in the special sciences of Chemistry, Geology, Physics, requiring the usual four-year program; the Bachelor of Science in Medicine, awarded at the end of the first year in the School of Medicine of this University following the completion of the three years of academic work outlined on page 124; and the *A.B. degree after a specified program of two years in the General College, one in the College of Arts and Sciences, and one year in the School of Law in this University. The teacher training programs vary with the subjects to be taught in the high schools according to the schedules of the State Department of Education. Special attention is given to physical education and health programs for the schools by specialists in this field. The courses in dramatic art and the

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* For outline of academic work see page 121.

Carolina Playmakers furnish good opportunity for students interested in the theatre.

Attention should be called to the opportunities offered by the Summer Session for reducing the time spent in completing the work for degrees and for making changes from one program to another without loss of time. By this means students as late as the end of the sophomore year may change from a regular Bachelor of Arts program to one of the special Bachelor of Science programs.

TEACHER TRAINING

Special attention is given to the proper training of those who expect to teach in the high schools of the State. Through an arrangement with the Chapel Hill High School students are given the opportunity to observe a specially trained group of teacher at work and to take part themselves in the teaching. Training for persons who expect to work in physical education as well as to teach in the schools is provided through the cooperation of the Medical School, the entire athletic staff, and the specialists in physical education.

Students intending to prepare for teaching are advised to consult with the Chairman of the Division of Teacher Training as early in their college careers as possible, both to give notice of their intention and to see that their courses in the subjects they intend to teach are properly chosen. It is advisable to prepare to teach in two fields. See programs of study in the Division of Teacher Training, pages 117ff.

PREPARATION FOR THE STUDY OF LAW AND MEDICINE

Students preparing for the study of Medicine or of Law may do so in one of the following ways: (1) they may take the regular four-year course leading to the A.B. degree, choosing subjects proper to their purpose; (2) they may take the special courses leading to the A.B.-L.L.B. or the S.B. in Medicine; (3) they may take three years of academic work without the Bachelor's Degree in view, but with careful regard to meeting the exact requirements. Students preparing for dentistry should take at least the first two years of the pre-medical work.

*ADMISSION

Admission to the College of Arts and Sciences is based upon the satisfactory completion of the first two years in this University or another institution of similar standards, or in an approved junior college. By order of the Board of Trustees, women may enter the College of Arts and Sciences on the same

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* Each application for admission to advanced standing must be accompanied by a fee of five dollars ($5.00) as an earnest of good faith. If the applicant is not accepted, the fee is returned; if he is accepted and enrolls as a student, the fee (having been deposited with the University Cashier) will be applied against the bill at his first registration; if he is accepted but chooses not to enroll as a student here, the fee will be forfeited regardless of the reasons involved.

terms as men. It is expected that at least half the grades received in the work presented for admission be of grade "C" or better.* In cases upon which there is doubt as to preparation credits granted will be of a tentative nature which must be validated by work taken in this University.

In general students entering the third year of college, which is the first year in the College of Arts and Sciences, should present at least sixty-four semester hours of college work, or ninety-six quarter hours, exclusive of physical education. This work should include two years of work in English, two in one foreign language above the entrance units, two years in one or one year in each of two natural sciences with full laboratory work, two years in social science, including history, one year in mathematics or a classical language, one year of hygiene and physical education, and sufficient electives to make the full two years of college work.

In exceptional cases provision will be made for students who cannot meet the exact requirements, either to take the work needed here in the General College or to take examinations to prove that they are able to carry the work in the College of Arts and Sciences. In no case, however, will a degree be conferred without the completion of the full entrance requirements of this University either by examination or by certificate, the completion of the full course as required for the degree concerned, *and the additional requirement that the full work of the last year shall be done in residence at this University.*

See notes on Special Students on pages 97 and 130.

If required freshman courses are taken after the student begins his seventh quarter or if required sophomore courses are taken after he begins his tenth quarter, only half credit is allowed.

CURRICULUM LEADING TO BACHELOR OF ARTS

In order to secure the degree of Bachelor of Arts it is necessary that the student complete fully the requirements set up in the General College for the first two years and follow this by meeting in full the requirements in one of the Divisions for the junior and senior years. See page 104 for a statement of the requirements in the General College and pages 112-115 for the general requirements in the Divisions. The requirements for a major in any Department will be found in connection with the descriptions of courses offered by that Department.

Special attention is called to the academic curriculum leading to the combined A.B.-LL.B. See page 121. The academic requirements for the degree of S.B. in Medicine are shown on page 124. In these curricula students secure the degree of A.B. after three years of academic work and one year of law, and the degree of S.B. in Medicine after three years of academic and one year of medical work.

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* This means 80 or higher in percentage grades with 70 as the passing grade.

The minimal number of quarter hours for graduation is 192, including 6 quarter hours in Physical Education. If a subject has five class meetings a week for a quarter this subject carries five quarter hours. Laboratory work is considered in this evaluation as one quarter hour for two hours of scheduled work in the laboratory. It is entirely possible that a student may accumulate the minimal number of hours for graduation but still not have met the requirements of his Division. The requirements of the Division must be met regardless of the number of quarter hours taken.

There is no intention on the part of the University to evaluate education in terms of hours and courses, but since the usual time period in American Colleges is four years we give the time element in quarter hours and the content in courses for the convenience of the student.

In an effort to replace the time serving point of view by achievement the student is required to pass a comprehensive examination in his major subject. This examination is given four times a year, fall, winter, spring, and summer. To be eligible to take this examination the student must have met the requirements stated on page 82. The time of these examinations is shown in the Catalogue of Events. See page 4. Students in the program leading to A.B.-LL.B. or to the S.B. in Medicine do not take the comprehensive examination, but are awarded their Bachelor's degree upon the satisfactory completion of the first year in the School of Law or the School of Medicine, according to the regulations of these two Schools. It should be observed that the Bachelor's degree is awarded only upon the satisfactory completion of the first year in the School of Law or the School of Medicine in the University of North Carolina.

Students are advised to choose their major subjects if possible by the beginning of their second year, if not earlier, as the work in the major may be greatly facilitated by the proper choice of courses in the sophomore year. It is also highly desirable that all the requirements of the first two years be satisfied before entering one of the Divisions for the major work. The Summer Session may be used for this purpose by students who find themselves behind in their schedules.

THE DIVISIONS

For the purpose of better educational policy in regard to the student's choice of courses, sequences of courses, etc., the faculty is divided into three Divisions, the Division of the Humanities, the Division of the Social Sciences, and the Division of the Natural Sciences. As indicated above, another Division has been set up for administration, guidance, and program-making in the field of teacher training. The work of some Departments will be found in more than one Division and for convenience that of others may from time to time be shifted from one to another or be placed in more than one; courses in Departments listed in more than one division, however, cannot be counted both as allied to the major and as extra-divisional work.

The student should make up his mind by the end of his freshman year if possible what subject he wishes to make his major. In his sophomore year he should take whatever work he can looking towards his major. In his junior year he enters one of the Divisions and his work is directed by the requirements of the Divisions and by any special needs he may have in conference with the Head of the Division, or by a person designated for this purpose. Students taking the A.B.-LL.B. course do not fall in any Division but are under the direct charge of the Dean of the College of Arts and Sciences; those taking the S.B. in Medicine curriculum are in the Division of the Natural Sciences.

After full consideration and discussion the Divisions have arranged their general plans of operation with reference to requirements in the junior and senior years as will be shown below. As ordered by the General Faculty in its action on the plan, it is understood that any individual may find it advisable to work out for himself a plan, submit that plan in detail to the Division of his choice, and ask for approval of the same. If such approval is granted, he may proceed towards his degree on that plan.

THE DIVISION OF THE HUMANITIES

William Morton Dey, Ph.D., *Chairman*
Richmond Pugh Bond, Ph.D., *Secretary*

After a student has selected his department of major interest, that department must require of him a minimum of six whole quarter courses, or the equivalent in whole and half courses, and may require a maximum of eight such courses. In the allied departments of the Division the student must take at least four such quarter courses and may take eight, distributed between at least two departments; not more than four of these divisional courses may be taken within one department. It is required that the student take from departments in the other Divisions at least four and not more than seven whole quarter courses, in all a sufficient number of courses to make a total of at least eighteen whole quarter courses over and above the full requirements of the General College.

The Departments of Instruction included in the Division of the Humanities are as follows:

The Classics
English
Germanic Languages
Romance Languages
General and Comparative Literature
History
Philosophy
Art
Dramatic Art
Music

Note that for the purpose of teacher-training the Division of Teacher Training is considered as allied to each Division.

Program for Honors Work

A student in one of the departments in the Division of the Humanities may as the result of distinguished work be awarded a degree with *Honors or Highest Honors.*

I. Application. At the end of the sophomore year or the beginning of the junior year the student with a good record for courses in the General College may become a candidate for honors by applying to the head of his major department or to the chairman of the departmental committee on honors, with whom he will confer on a unified program of work. The student who fails to register for honors before the third quarter of his junior year may be admitted to candidacy only upon application to the Advisory Board of the Division.

II. Requirements. The candidate for honors is expected to give evidence of ability to do work which in quality and quantity can be judged as outstanding. In addition to a good general knowledge of his major subject he must secure an intensive understanding of that special field which will form the background of his essay. To this end he should do, in term and in vacation, a large amount of reading additional to that assigned in his regular courses. (For reading courses see below, Section IV). A grade average of B in the major subject will normally be considered as a minimum. The following are the formal requirements for a degree with honors in the Division:

1. *Written comprehensive examination.*
2. *Essay.* This essay, which need not be a piece of original research, must be submitted in typed form by May first of the senior year.
3. *Oral examination.* This examination, one hour in length, will be limited to the student's special field.

All of the honors work must come up to a standard of excellence to be determined by the departmental committee, which shall have charge of the administration of the requirements and shall have the power to demand that a student return to his regular status. The candidate showing a superlative degree of ability and industry will be awarded *Highest Honors.*

III. ADVISER. To guide him in his reading and in the preparation of his essay a member of the staff of his major department will be assigned the candidate for honors as a special adviser.

IV. EXEMPTION FROM CLASSROOM COURSES. The candidate for honors may receive credit for as many as three reading courses. Such courses, with exemption from class attendance and the requirements of regular courses, should usually be taken during the first and second quarters of his senior year, though the departmental committee, on the recommendation of the special adviser, will have power to modify such a procedure. Only one of the three reading courses may be taken during the junior year, not more than two of them may be taken during a single quarter, and all three of them must be counted as belonging to the major subject. The candidate who upon his own initiative or the decision of the departmental committee abandons working for honors or who fails to satisfy all the formal requirements for a degree with honors may, with the consent of the departmental committee, receive credit for the reading courses which he has completed.

THE DIVISION OF THE SOCIAL SCIENCES

ALBERT RAY NEWSOME, Ph.D., *Chairman*
KATHARINE JOCHER, Ph.D., *Secretary*

This Division requires the student to complete a minimum of six whole quarter courses or the equivalent in whole and half courses in his chosen department of major interest. If however essential foundation courses in the major department have not been completed in the General College, a maximum of eight such courses may be required in that department. From five to seven courses in allied departments within the Division of the Social Sciences are required, and from Departments in the other Divisions at least five and not more than seven whole quarter courses, in all a sufficient number of courses to make a total of at least eighteen whole courses over and above the full requirements of the General College.

This Division includes the following Departments of Instruction:

Economics
Philosophy
Psychology
Sociology
History
Political Science
Rural Social-Economics

NOTE: See the note on the Division of Teacher Training above in connection with the Division of the Humanities.

Program for Honors Work

The program for honors work in the Division of the Social Sciences is substantially the same as that in the Division of Humanities above, with the important difference that in the Division of the Social Sciences, the candidate for honors may receive credit for only two reading courses.

THE DIVISION OF THE NATURAL SCIENCES

ROBERT ERVIN COKER, Ph.D., *Chairman*
FLOYD HARRIS EDMISTER, Ph.D., *Secretary*

The general requirements in this Division are as follows: six whole quarter courses or the equivalent in the department of major interest, six in allied departments of the Division, and six in departments in other Divisions, in all a total of eighteen courses. The Dean is authorized to make such adjustments as are necessary in order that students with majors in science shall not have to take more than the standard number of hours for graduation

By action of the Division it is agreed that courses taken in the General College (exclusive of regular freshman courses) may, in the discretion of the department concerned, be credited towards meeting the requirements for a major; and that similar courses in allied departments taken in the General College may, in the discretion of his department of major interest, be credited towards meeting the requirement of courses in allied departments. The purpose of this action is to give the student a larger opportunity to take courses in departments outside the Division.

The following Departments of Instruction are included in this Division:

Botany
Geology
Philosophy
Psychology
Chemistry
Mathematics
Physics
Zoology

Students with a major in the Division of the Natural Sciences may take any one of the following courses in Philosophy as "allied" or "extra-divisional": Philosophy 66, 71, 134, and 141; all others are classed as "extra-divisional."

For students with a major in the Division in other departments than the Department of Psychology, the introductory course in Psychology (21-22-23 or 24-25) is regarded as "allied"; all others may be taken as "allied" or "extra-divisional."

For students with a major in the Division in other departments than the Department of Education, Education 90, 92, 189, and 191 may be counted as either "allied" or "extra-divisional," all other courses in Education are treated as "extra-divisional."

NOTE: The place of the Division of Teacher Training is indicated above under the Division of the Humanities.

THE DIVISION OF TEACHER TRAINING

HARL ROY DOUGLASS, Ph.D., *Chairman*

ADVISORY BOARD

HARL ROY DOUGLASS, Ph.D., *Kenan Professor of Secondary Education*
FREDERICK HENRY KOCH, A.M., Litt.D., *Kenan Professor of Dramatic Literature*
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FRANCIS FOSTER BRADSHAW, Ph.D., *Dean of Students and Professor of Philosophy*
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ARTHUR MELVILLE JORDAN, Ph.D., *Professor of Educational Psychology*
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SHIPP GILLESPIE SANDERS, A.M., *Professor of Latin*
CARLETON ESTEY PRESTON, Ph.D., *Professor of the Teaching of Science.*
PRESTON COOKE FARRAR, M.A., *Associate Professor of the Teaching of English*
HUGO GIDUZ, A.B., *Associate Professor of the Teaching of French*
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CHARLES BASKERVILLE ROBSON, Ph.D., *Associate Professor of Political Science*
LEE MARSHALL BROOKS, Ph.D., *Associate Professor of Sociology*
JOHN MINOR GWYNN, Ph.D., *Associate Professor of the Teaching of Latin*
EARL ANDERSON SLOCUM, M.M., *Associate Professor of Music*
ARNOLD KIMSEY KING, A.M., *Associate Professor of the Teaching of History*
SAMUEL THOMAS EMORY, M.A., *Associate Professor of Geology*
REX SHELTON WINSLOW, Ph.D., *Associate Professor of Economics*
RUSSELL TRAIN SMITH, A.B., M.Arch., *Associate Professor of Art*
JOSEPH EDISON ADAMS, Ph.D., *Assistant Professor of Botany*
WALTER SPEARMAN, A.M., *Assistant Professor of Journalism*

GENERAL STATEMENT

By trustee sanction and under direction of the all-University Division of Education, a local Division of Teacher Training has been organized as an integral part of the College of Arts and Sciences for the purposes of administration, guidance, and program-making in the field of teacher training in the University at Chapel Hill.

Undergraduate students who desire to prepare for secondary school teaching will be admitted to the Division after consultation with the Chairman or his representative. Each student shall follow the program of courses in Education outlined below. In addition he shall select one of the following as his major field of preparation: English, French, Latin, Mathematics, Music, Natural Science, Physical Education, or Social Science. With the advice of the department concerned (or Division in the cases of Natural Science and Social Science) the student shall follow one of the programs outlined below. A comprehensive examination is a part of the requirement for the completion of each major program. Each student is strongly advised to select a second or minor program in one of the fields listed above or in Dramatic Art; however, this is not required. Any combination of major and minor programs outlined below will be permitted. All students should consult with the Chairman of the Division of Teacher-Training regarding desirable teaching combinations which are commonly in demand. If the student chooses to prepare in only one field his additional electives must receive the approval of the Chairman of the Division.

The Advisory Board of the Division of Teacher-Training is composed of the members of the Department of Education and one representative from each of the other departments in the College of Arts and Sciences.

Education

The following courses in Education are required of all students to meet the requirements for certification in North Carolina: Education 41, 71, 99, one course in Materials and Methods, one course in Directed Teaching, and one elective in Education.

Dramatic Art

Students who choose a minor program in Dramatic Art will take the following courses: Dramatic Art 63, 64 and two of the following: 155, 161, 162.

English

Students who choose a major program in English will be required to take: English 81; English 50; English 70, or by special permission 95; English 88, or 141, or by special permission 131;

and unless exempted for sufficient reasons a course from one or two of the following groups: English 41, 42, or 44; English 52, 53, or 54; and English 95. Students shall select additional electives to make a total of thirty-five quarter hours chosen in consultation with the departmental adviser who will supply a list of especially recommended electives which in approved cases may include one course in Dramatic Art, English History, Philosophy, Comparative Literature, or Journalism.

Students who choose a minor program will be required to take: English 81; English 50; English 88, or 141, or by special permission one of the following: English 70, 95, 99, 125, or 131; unless exempted one of the following: English 52, 53, or 54; or when exempted from the latter requirement, an approved elective.

French

Students who choose a major program in French will take the following courses: French 51; 52; 71; 72; 126; 145; and 55 (when required), or 109, or 192. Those choosing a minor program will take: French 55 (when required), or 51; 71; 72; and 145. French 55 is required of all students whose knowledge of grammar is considered unsatisfactory.

Latin

Students who choose a major program in Latin will take the following courses: Latin 71 and 51 or 52; and four additional courses, one of which may be a course requiring no work in the Latin lauguage, from the following: Latin 62, 76, 101, 102, 103, 104, 105, and 112. Those who choose a minor program will take Latin 71, 51 or 52, and two additional courses.

Mathematics

Students who choose a major program in mathematics will take the following courses: Math. 21-22-23, or 31-32-33; Math. 103 and additional courses in mathematics to make a total of thirty quarter hours. It is recommended that the latter be selected from Math. 51-52, 104, and 131. Those who choose a minor program will take twenty quarter hours from the major program.

Music

Students whose major for the A.B. degree is in Music, and who desire to qualify for teaching should plan their work so as to include, in addition to the regular courses constituting the major in music, the courses in Education listed above. The student desiring to specialize in instrumental music should include at least two courses, selected according to his major instrument. Those who choose a minor program in music will take the following: Music 1-2-3; Music 24-25-26 or any two from Music 54, 55, 56; and three quarter hours instruction in Voice.

Natural Science

The student who desires the degree of Bachelor of Science in Science Teaching will take the following program during his four years in the University:

	Quarter Hours
English 1-2-3, 22-23-24	18
Foreign Language 11-12-13, 21-22-23	18
Social Science 1-2-3	9
Math. 1-2-3, 21-22-23 (or 31-32-33), and 103	23 or 29
Chemistry 1-2-3, 31, and one other	24
Physics 21-22-23 and one other	17
Botany 41, 43	12
Geography 31-32-33 (or in special cases 2 others)	12
Zoology 41, 42, and 103 or one other	18
Education 41, 71, 92, 98 (or 99), 191, and one other	30
Hygiene 1-2-3 and Physical Education 1-2-3	6
*Elective	5
Minimum:	192

Students interested in a major program in natural science leading to the Bachelor of Arts degree will consult the Chairman of the Division of Natural Sciences or his representative for advice in planning a suitable program. The student who desires the minimum number of courses necessary for a teacher's certificate in North Carolina should take the following courses or their equivalent during his four years in the University: Physics 21-22-23; Chemistry 1-2-3; Botany 41; Zoology 41; one course in Geology; and one additional course in a natural science.

Health and Physical Education

Students who choose a major program in health and physical education will take the following courses: Physical Education 51, 52, 53, 71, 72, and 73; and Health Education 61 and 62. Those who choose a minor program will select four courses from the following: Physical Education 51, 52, and 53; and Health Education 61 and 62. The minor for women must include Physical Education 74 and 85. In both the major and minor programs the student shall take Health Education 63 as one of his required courses in the Department of Education.

Social Science

As prerequisite to either the major or minor program in social science and to satisfy certain basic certification require-

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* The elective work (if in science) may be chosen from the following subjects: mathematics, chemistry, physics, botany, zoology, physiology, bacteriology, geology, geography—subject to the approval of the Chairman of the Division of Teacher Training or his representatives. The Head of the Department chosen will be consulted as to the suitability of particular courses for prospective teachers.

ments all students must have the following courses or their equivalent: Social Science 1-2-3, History 21-22-23, and Political Science 51. It is recommended that these courses be completed by the end of the sophomore year. The student who chooses a major program may then pursue either of the following plans:

(1) A major of 6 or 7 courses in one of the following departments in the Division of the Social Sciences as prescribed by that department: Economics, History, Political Science, or Sociology, including Rural Social-Economics; or

(2) A major in Social Science consisting of the following courses or their equivalent: Economics 31-32, two five-hour courses in history of junior-senior rank, Rural Social-Economics 101 (except in case of out-of-state students who may substitute Rural Social-Economics 51 or 71), and Sociology 51 and either 151 or 181.

Students who choose a minor program will take the prerequisite work mentioned under the major program and three additional courses selected from any of the following fields: economics, history, political science or sociology, including rural social-economics.

CURRICULUM LEADING TO THE DEGREE OF A.B. IN JOURNALISM

The course of study for the first two years is the same as that required of other candidates for the A.B. degree.

The following courses are specified in the junior and senior years:

English 52 or 53 or 54.

Two courses in Economics.

American Government and one other course in Political Science to be approved by the Head of the Department of Journalism.

Two courses in American History or two courses in North Carolina History.

One course in Advertising given by the School of Commerce.

Four and one-half courses in Journalism.

Elective, six and one-half courses. While it is suggested that these may well come from economics, philosophy, English, or foreign languages, it is understood that they are not restricted and the student is free to take his choice from any courses of junior or senior grade in the College of Arts and Sciences.

ACADEMIC CURRICULUM FOR A.B.-LL.B.

Upon the completion of the courses in the General College and in the College of Arts and Sciences outlined below, with grades of C or better on at least half of the work, *and before* *matriculation in the School of Law,* and the completion of the first year of law to the satisfaction of the School of Law, a student may receive the degree of A.B., and, upon the satisfactory completion of the three years of law, the degree of LL.B., thus securing both degrees in six years instead of the seven years required for the two separately. The prescribed academic work is as follows:

First Year	*Second Year*	*Third Year*
English 1-2-3 Social Science 1-2-3 *Mathematics 1-2-3 Hygiene 1-2-3 Physical Education 1-2-3	English 22-23-24 History 21-22-23 or 44-45-46	Economics 31-32 (if not already taken)
Select one: †Greek 11-12-13 **Latin 11-12-13 †French 11-12-13 †German 11-12-13 †Spanish 11-12-13	Select one: Economics 21-22-23 Polit. Science 31-32-33 History 21-22-23 History 44-45-46 Philosophy 21-22-23 Sociology 21-22-23	††English 44 and one other course of 5 quarter hours in English ††History and Political Science—2 courses of 5 quarter hours each
Select one: Nat. Science 1-2-3 Chemistry 1-2-3 Geology 21-22-23 Physics 1-2-3	Select one: **Latin 21, 24-25 Greek 21-22-23 French 21-22-23 German 21a-22a Spanish 21-22-23	Psychology 21-22-23 or 24-25 (if not already taken)
	Select one: Botany 41, 43 Chemistry 1-2-3 or ‡4-5 or 31 and 41 ‡Physics 21-22-23 Zoology 41, 42 Botany 41 and Zoology 41 Geology 21-22-23 or 41-42 Psychology 21-22-23 or 24-25	One or more electives as may be needed to complete 9 courses of 5 quarter hours each above the freshman and sophomore years

CURRICULUM IN INTERNATIONAL STUDIES

The Curriculum in International Studies leading to degree of A.B. with a major in Political Science has been established for the following purposes:

1) to afford a complete academic major in international affairs;

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* Instead of Mathematics 1-2-3 a classical language may be chosen provided the student meets by another language the regular requirement in foreign language.

† Lacking sufficient preparation in the chosen language, the student will take the 1-2-3 courses which cover the elementary work and the work of courses 11-12-13.

** If the student presents 2 units of Latin, he will take 11-12-13 (freshman year) and 21, 24-25 (sophomore year). If he presents more than 2 units of Latin, he begins his work in that language with the course for which he is prepared, making up by electives the courses omitted by reason of this action.

‡ Chemistry 4-5 is not to be taken if Chemistry 1-2-3 has been taken, nor may Physics 21-22-23 be taken if Physics 1-2-3 has been taken.

†† The School of Law recommends that the elective course in English be English 52 (Advanced Composition) and that the electives in history and political science be in English and American history and political science.

2) as preparation for a career in the Foreign (consular and diplomatic) Service of the United States;
3) as preparation for those planning to become specialists in international relations;
4) as preparation for advanced study for those preparing to do educational and social work in foreign countries.

*Junior and Senior Years

Major: Political Science 51, 52, 141, 142, 144, 159, and two of the following:

Political Science 151
Political Science 155
Political Science 145: Introduction to Private International Law. (Note: a new course for students preparing for the Foreign Service and others).

Allied: Economics 137, 161, and three of the following:

Economics 11, 35, 81-82, 165
Sociology 51, 52, 186
Psychology 133

Non-Divisional: Required: History 49, 91, 143, and a course in composition and conversation in the language pursued in the freshman and sophomore years.

Choose one: History 133, 134, 135, 139, 167, 168; English 44, 45, 52; Geography 153.

CURRICULA FOR THE DEGREE OF BACHELOR OF SCIENCE

For those students whose interest is in the applied sciences and who wish to enter seriously upon the pursuit of the specialized knowledge and techniques of the sciences the University offers several curricula leading to the degree of Bachelor of Science. Each of these provides for specialization in a particular science (or in the work of the Medical School), accompanied by the necessary instruction in related fields of science and a minimal requirement of work in English, foreign language, and other non-scientific fields. These curricula, which are designed to furnish the fundamental instruction for some of the technical professions, are four in number.

Bachelor of Science in Chemistry. Bachelor of Science in Geology
Bachelor of Science in Medicine. Bachelor of Science in Physics

If required freshman courses are taken after the student begins his seventh quarter or if required sophomore courses are taken after he begins his tenth quarter, only half credit is allowed.

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* The following is recommended for the first two years: The same arrangement of courses in the General College as is there set up for those intending to seek the degree of A.B., except that in the second year Psychology 21-22-23 is to be chosen as the sophomore natural science and either Economics 21-22-23 or History 21-22-23 is to be chosen as the sophomore social science.

BACHELOR OF SCIENCE IN CHEMISTRY

Freshman Year

Chemistry 1-2-3
English 1-2-3
*German 11-12-13
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Chemistry 31, 42, 41
English 22-23-24
**German 21a-22a
Mathematics 21-22-23 or 31-32-33

Junior and Senior Years

Chemistry 61, 62, 63, 181, 182, 183
Physics 21-22-23 or 24-25
Geology 101, 147
English 59
Botany 41 or Zoology 41
†Elective, 8 full quarter courses

BACHELOR OF SCIENCE IN GEOLOGY

Freshman Year

Required:
Geology 21-22-23 or 41-42
English 1-2-3
Mathematics 1-2-3
Social Science 1-2-3
Hygiene 1-2-3
Physical Education 1-2-3

Choose one:
*French 11-12-13
*German 11-12-13
*Spanish 11-12-13

Sophomore Year

Chemistry 1-2-3
English 22-23-24
Geography 31-32-33
Mathematics 41, 51, 52

Summer Field Work

Geology 128-129

Junior Year

Geology 101, 102, 103
Physics 21-22-23
English 59 and 44 or
**Foreign Language 21-22-23
Elective of 5 hours

Senior Year

Geology 104, 105, 106
Geology 107, 108, 109
††Zoology 41 or Botany 41
Two electives of five hours each

BACHELOR OF SCIENCE IN MEDICINE

The University recommends to each applicant for admission to its School of Medicine that he prepare himself as fully as his age and resources permit. If possible he should first secure a bachelor's degree, either A.B. or S.B., before beginning his professional study. If this is impracticable, he may secure excellent preparation by completing the academic curriculum, outlined below, leading to the degree of Bachelor of Science in Medicine.

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[*] Lacking adequate preparation, the student must take courses 1-2-3 in any foreign language.

[**] If desired, scientific or technical German will be offered in German 24a-25a.

[†] Of these electives 3 must be in the field of natural science, 3 must be outside the field of natural science, and the 2 remaining electives may be in any field.

[††] In special cases an advanced course in a science other than geology may be substituted.

The degree is conferred upon the satisfactory completion of the first year of work offered in the School of Medicine.

NOTE: Students pursuing the academic subjects listed below are hereby notified that the completion of these courses does not necessarily mean admission to our School of Medicine. From the rather long list of applicants are chosen a maximum of forty-five who are deemed the most promising material for admission to our School. No arrangement exists for granting the degree of S.B. in Medicine for work in any medical school other than ours. Therefore, in order to secure our S.B. in Medicine, the student must complete the first year of work offered in our School of Medicine and in no other such school. To be eligible for the degree of S.B. in Medicine, at least the last year of academic work must have been done in this institution.

First Year

Chemistry 1-2-3
English 1-2-3
Mathematics 1-2-3
Social Science 1-2-3
*Foreign Language 11-12-13
(French or German)
Hygiene 1-2-3
Physical Education 1-2-3

Second Year

English 22-23-24
*French 21-22-23
or German 21a-22a
Botany 41, Zoology 41, 42 or
Botany 41, Physics 24, 25
Chemistry 31, 42
Elective, 1 course

Third Year

Psychology 21-22-23 or 24-25
Chemistry 61, 62, 63
Zoology 41, 42 or
Physics 24, 25
Elective, 1 course

BACHELOR OF SCIENCE IN PHYSICS

Freshman Year

†Physics 1-2-3, or 1-22-23
English 1-2-3
Mathematics 1-2-3
Social Science 1-2-3
††French or German 11-12-13
Hygiene 1-2-3
Physical Education 1-2-3

Sophomore Year

Physics 55. 56 or 52, 42 or 54
English 22-23-24
Math. 31-32-33 or ** 21-22-23
French 21-22-23 ***German 21a-22a

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* The intermediate course (11-12-13) in French or German or both are to be taken provided the student shows evidence of adequate preparation; otherwise he takes the elementary courses (1-2-3) in the language or languages. The elementary courses, meeting six hours a week, are designed to cover both the elementary and intermediate work. In case both French and German are elected, the requirement is met in three quarters of each language (courses 1-2-3 or 11-12-13); in case only one language is taken, French 21-22-23 or German 21a-22a also must be completed.

† Students who have a grade of A or B in Physics 1 may take Physics 22 and 23 in place of Physics 2 and 3, subject to the approval of the instructor.

†† Lacking adequate preparation, the student must take courses 1-2-3 in French or German.

** If Mathematics 21-22-23 is chosen the student must take in addition an elective course of three hours a week through the year; Mathematics 31-32-33 is recommended.

*** If desired, scientific or technical German will be offered in German 24a-25a.

In the junior and senior years, one who expects to work in industrial physics can specialize in experimental courses, while one interested in theoretical physics can specialize in more mathematical courses. Credit of 192 hours as a minimum is required for graduation.

Junior Year

Physics 52, 53 or 56, 58
Math. 41, 141
Chem. 1-2-3 or 4-5
English 59
Electives, 5 to 8 quarter hours in some field other than Physics

Senior Year

Electives, 3 to 4 courses in some field other than Physics.

Five courses from the following, at least three being in Physics:
- Physics 91, 101, 105, 106, 110, 120, 140, 141, 160, 161, 170
- Math. 104, 111, 121, 122, 123, 131, 161, 171
- Chem. 42, 61, 62, 181, 182, 183

THE SCHOOL OF COMMERCE

Frank Porter Graham, M.A., LL.D., D.C.L., Litt.D., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
Dudley deWitt Carroll, M.A., *Dean*
John Brooks Woosley, Ph.D., *Chairman, Graduate Studies and Research*
Erich Walter Zimmermann, Ph.D., *Chairman, Committee on the Library*

*THE ADMINISTRATIVE BOARD

Sturgis Elleno Leavitt, Ph.D.
Erich Walter Zimmermann, Ph.D.
Earle Ewart Peacock, M.B.A.
John Brooks Woosley, Ph.D.
Corydon Perry Spruill, Jr., A.B., B.Litt. (Oxon.)
Almonte Charles Howell, Ph.D.
Richard J. Mendenhall Hobbs, A.B., LL.B.

GENERAL STATEMENT

Though courses of instruction in economics and in certain business subjects had been offered for many years in the University of North Carolina, not until 1919 was there established a comprehensive, well-organized business curriculum. In that year, the Legislature, in conformity with the recommendations of the President and the Board of Trustees, enacted the legislation which resulted in the immediate organization of the School of Commerce. The School occupies a place in the University organization which is coordinate in standing and equipment with the College of Arts and Sciences.

The undergraduate course of study, leading to the degree of Bachelor of Science in Commerce, covers a period of four years and is designed to give a foundation of broad and general culture, and, at the same time, supply a definite and practical training to those who intend to engage in any of the great lines of industrial and commercial activity. For those desiring more intensive specialization, the School of Commerce offers graduate courses leading to the degree of Master of Science in Commerce.

AIM AND PURPOSE

The phenomenal industrial development of the South in recent years has produced an imperative need for trained business men. The School of Commerce in a large sense is the expression of the University's desire to serve this special need of its own particular section. To this end substantial support has been accorded the School both by the University and the State as a whole. In consequence the School has been provided with a large and able corps of instructors, with spacious quarters in Bingham Hall, and thoroughly modern teaching facilities.

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

It is the purpose of the School of Commerce to provide its students with as thorough and scientific business training as it is possible to give within the range of the subject which it attempts to cover. Its teaching policy assumes that such training should consist not only of the requisite understanding of the principles and methodology which govern the organization and administration of typical business enterprises, but in addition an understanding of the problems and the larger relationships of the economic organization as a whole. In his attempt to master the technical and the vocational aspects of business, the student will not be permitted to lose sight of the social and cultural.

TEACHING POLICY

Wherever possible, the plan is followed of presenting the subject-matter of the various courses from the point of view of the executive, always bearing in mind that the executive's field of interest includes the broad outside relationships as well as the internal administration of his business. Adherence to this common point of view prevents confusion in the mind of the student and enables him to place the problems and practices of business in their true perspective.

Within the short space of time at his disposal, it is impossible for the student to investigate in detail the entire field of business. It is therefore the policy of the School of Commerce to supplement the general survey which is required of every student with a more intensive study of that portion of the field which is of especial interest to him. To this end there have been prepared for the student certain groupings of closely related courses. The groupings have been made in such a way as to correspond to certain major functions which must be performed in the successful administration of a business enterprise.

These functions may be designated as follows: (1) production; (2) finance; (3) marketing and selling; (4) management of personnel; (5) risk and insurance; (6) accounting; (7) statistics.

In addition to these groups, which have been constructed to conform with the major business functions, certain others have also been provided. The first of these offers special study in the field of foreign trade. It is so devised as to be of value not only to those intending to engage in some branch of export or import trade, but also to be of material aid to those looking forward to careers in connection with the diplomatic and consular service.

SCOPE OF SPECIALIZATION

Specialization in the manner here indicated, however, does not begin until the senior year, except in the accounting, marketing, and merchandising groups. The School of Commerce accepts the principle that a broad and thorough training in fundamentals, as well as some maturity of mind, should precede any high degree of specialization. Whether the educational process be viewed as a training of the mental faculties, or as the acquisition of a fund of knowledge, it is equally imperative that the materials of study be definite and compact. Arrangement and treatment must be so designed as to assure results which are cumulative and which have continuity of direction.

To this end the undergraduate curriculum of the School of Commerce is arranged in logical sequence, with the same requirements imposed upon virtually all candidates for degrees until the senior year is reached. During his freshman and sophomore years in the General College the student is required to follow a path of study which closely parallels the liberal arts course. The first year's work includes English composition, mathematics, social science, biological science, and a modern language. In the second year are courses in general economics; in English and American Literature; in a natural science; and an election of courses from business organization, accounting, general psychology, American federal government, and a continuance of the chosen modern language.

In his junior year the student devotes most of his time to required courses in economics, commerce, *psychology, *and government, which include money and banking, business organization, accounting, economic statistics, *general psychology, and *American federal government.

In the senior year specialization begins through the election by the student of his preferred group of courses from the list outlined above. It is to be noted that the freedom to elect does not apply to courses regarded singly, but only to courses as they are arranged in more or less standardized groups. Having chosen a given group, the student is expected to satisfy its requirements in full unless a substitute program has been submitted to and approved by the Administrative Board of the School.

In all of the groups two courses in business law are required, and one course on the relationship between government and business. A fourth requirement common to all groups is a choice either of the course in Theories of Economic Reform, or of the course in Labor Problems. This leaves in each group from five to six courses which constitute the subject matter of specialization.

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* Courses in general psychology and in American federal government may have been elected already in the General College.

IMPORTANCE OF GRADUATE STUDY

From the preceding survey of the undergraduate curriculum it is apparent that those students who are desirous of securing the benefits of thorough specialized training and intensive research work should continue in the University for at least one year of graduate study.

The Administrative Board of the School strongly urges the advisability of such an additional year for the superior student. Equipped with his undergraduate training, unburdened of the formal routine of courses which have been preparatory in nature, the graduate student is free to concentrate his full powers upon the subject of his choice. His attitude changes from one of receptivity and acquiescence to one of active inquiry and initiative. He is charged with the responsibility of finding new materials and new arrays of facts, and of subjecting them to his own independent analysis, to the end that new relationships may be discovered or new evaluations made. His initiative, his analytical and creative powers, his quality of persistence, are tested and developed to a degree impossible of attainment in the undergraduate years.

The School of Commerce is prepared to offer graduate instruction and facilities for graduate research activities in the fields indicated by the senior study groups. Courses have been developed exclusively for graduate students. They are designed primarily for the encouragement and guidance of research activity, and in consequence are conducted informally and on a basis of close personal contact between professor and student.

GRADUATE DEGREES

The School of Commerce offers through the Graduate School the graduate degree of Master of Science in Commerce. Candidacy for this degree is conditioned upon the holding of a degree of S.B. in Commerce from this institution or from another institution of approved standing where the work required in commerce is of substantially the same nature and volume. Graduates, who transfer from other institutions and who did not specialize in Commerce, may pursue graduate work in Commerce upon the completion of the essential undergraduate requirements in this field.

The Department of Economics and Commerce offers through the Graduate School the degree of Doctor of Philosophy. It is possible under this arrangement to take a major in either field and a minor in the other.

Graduates of other institutions desiring to enter as candidates for higher degrees should submit their records together with application for entrance to the Dean of the Graduate School.

The conferring of the degree of Master of Science in Commerce assumes as a minimum the completion of eight full courses or their equivalent as approved by the Dean, a residence period of at least one year, and the completion of a thesis which embodies the results of original research work on the part of the student. (For further details see the catalogue of the Graduate School.)

SPECIAL STUDENTS

There are many young people already in business who feel the need of additional special training but who are unable to spend the full four years at the University, or who cannot provide proper entrance credits. Recognizing this, the School of Commerce will admit students of twenty-one years of age or over, who cannot fulfill the entrance requirements, as special students but not as candidates for degrees. Such students must supply satisfactory evidence of their ability to profit from the courses. Such evidence must include testimonials from former employers certifying to the term, nature, and quality of their work. A personal interview with the Dean also is recommended. Special students are admitted on probation.

LIBRARY FACILITIES

In addition to the facilities afforded by the general library of the University, the School of Commerce is equipped with its own special collection of materials. In the latter are contained a large number of the economic and business publications of recent years which may be of value to the student. An annual fund of about $2,500 assures that the collection will be well maintained and kept up-to-date.

Especially noteworthy is the collection of periodical publications. Most of the important periodicals in the general field of business and finance are regularly received. In addition, the School of Commerce is a regular subscriber to over fifty trade journals, and to the statistical services of Moody, Brookmire, Gibson, the Babson Institute, and the Standard Statistics Company. The Harvard and Cambridge Economic Surveys also are provided.

A full-time librarian is in charge and is prepared to aid students in the collection of such materials for research work as may not be currently available in the University. Special library privileges are accorded graduate students who have access to the stack rooms and private desk space.

LECTURES AND OBSERVATION TRIPS

Students are expected to take advantage of the frequent opportunities to hear lectures offered by prominent business men who are invited to the University for this purpose. These lectures will prove of great value to the student in furthering his acquaintance with the practical aspects of business.

From time to time the classes in business subjects make visits to neighboring factories and other types of business institutions for the purpose of making first-hand studies of organization and administrative methods.

BUSINESS CLINICS

In addition to formal lectures, the School from time to time arranges for recognized business leaders to come to the University for informal discussion of current business problems in their respective fields. The virtue of this arrangement is that the informal discussion of problems in a particular field will give the student a clearer understanding of the actual everyday aspects of business.

STENOGRAPHY

No credit toward the degree is given for stenography but every student is urged to acquire facility in the use of it before graduation. Instruction in this subject is not offered by the University but can be secured in Chapel Hill in a private school.

SOCIETIES

Beta Gamma Sigma, recognized by the American Association of Collegiate Schools of Business as the national scholarship fraternity in Commerce and Business, maintains a chapter, Alpha of North Carolina, at the University. Eligible for membership in this organization are those students ranking scholastically in the highest tenth of the Senior Class and the highest two per cent of the Junior Class.

Delta Sigma Pi, a national commerce fraternity, has a chapter in the University. This fraternity is professional in character and performs valuable services in the preparation of students for a business career. Membership includes both students and faculty.

STANDARDS OF WORK

The School was admitted to membership in the American Association of Collegiate Schools of Business in 1923. This is an organization formed for the promotion of thorough-going, scientific training for the business profession. It maintains high standards of membership based on the number and training of the faculty, the thoroughness of the work, the length and breadth of the curriculum, the number of students, the financial backing of the School, and the facilities for carrying on the work.

STUDENT HABITS

Training for business, if it is to be worthy of the name, should include at least two elements: first, an understanding of the principles and processes of business; and second, the practice of habits of work essential to business success. Observation appears to justify the conclusion that promptness, industry, systematic application, and honest performance are quite as vital to mastery in the business world as an understanding of the nature of industrial and commercial phenomena. It is wasteful, then, to allow students to proceed far in this field if they are unwilling to fashion their habits in conformity with these essential requirements. The policy of the School will be to drop from its rolls any student who after a reasonable time fails to respond to the above standards. Attendance on classes and promptness and regularity in performing assigned work are judged in terms of the above principle.

FELLOWSHIPS AND ASSISTANTSHIPS

Two teaching fellowships, each of an annual value of $500 plus free tuition in the Graduate School, are annually awarded in the Department of Economics and Commerce. The recipients may be called on to do teaching or other duties in the Department not exceeding one-third of their time. Applications should be made prior to March 1.

A number of graduate and undergraduate assistantships, with stipends ranging up to $450 plus free tuition in the Graduate School, are awarded each year. The duties consist of grading papers, conducting laboratories, construction of charts, etc.

*ADMISSION

Admission to the School of Commerce is based upon the satisfactory completion of the first two years of college work given in the General College of this University or its equivalent certified by another institution of recognized academic standing.** By order of the Board of Trustees women may enter the School of Commerce on the same terms as men. Based on fifteen entrance units which conform to the admission requirements of the General College, the subjects covered in the first two years are as follows:

Freshman Year

English 1-2-3
Mathematics 4-5-6
Social Science 1-2-3
Natural Science 1-2-3c

Choose one***
- †French 11-12-13
- †Spanish 11-12-13
- †German 11-12-13

Hygiene 1-2-3
Physical Educ. 1-2-3

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* The outline of the work of the first two years is shown since the required work differs in some particulars from that of the College of Arts and Sciences.

** See footnote on page 109 for fee to be sent with an application for admission.

† The student who is not qualified to pursue the intermediate courses may take courses numbered 1-2-3, which cover both the elementary and intermediate work and prepare one to pursue the advanced courses.

*** *At the conclusion of the freshman year in a modern foreign language the student will be required to pass a test in a general reading knowledge of the language. If he fails to pass this test, he will be required to continue language courses without credit until he succeeds in passing the test.*

Sophomore Year

English 22-23-24
Economics 21-22-23
Economics 41

Choose three
- Commerce 51
- Commerce 71
- Commerce 66
- Political Science 51
- Modern Foreign Language

Choose one
- Zoology 41, 42
- Botany 41, 43
- Chemistry 1-2-3 or 4-5
- Physics 21-22-23
- Geology 21-22-23 or 41-42
- Mathematics 21-22-23

Satisfactory completion of the first two years of college work is interpreted to mean that at least half the credits are of C grade or better (C on a percentage basis covers the range from 80% to 90% with 70 as a minimum passing grade).

CURRICULA LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN COMMERCE

The degree of Bachelor of Science in Commerce will be conferred upon students who complete any one of the following curricula and in addition pass a comprehensive examination in the field of economics and commerce. An additional requirement for graduation is that the grades in at least half the work of a student shall be C or higher.

In order that the junior and senior subjects may be chosen in such a way as to constitute a coherent and comprehensive whole, rather than an unrelated and scattered series, the following programs have been devised. Each student is expected to elect at the beginning of his junior year the group which best serves his needs and to adhere to it. However, students whose interests do not coincide with any of the following groups are invited to submit an alternative program for the approval of the Administrative Board of the School.

The following courses are required of all juniors and seniors in the School of Commerce:

All of these which were not elected in the sophomore year	Commerce 51	Business Organization
	Commerce 66	General Psychology
	Commerce 71	Principles of Accounting
	Polit. Science 51	Government of the United States
	Economics 81	Principles of Money and Banking
	Economics 170	Economic Statistics
	Commerce 72	Principles of Accounting (continued)
	Commerce 91-92	Business Law
Choose one	Economics 135	Economic History
	Economics 191	An Introduction to the Labor Problem
	Economics 195	Theories of Economic Reform
	Economics 197	Government and Business

The following additional courses are required of students choosing the major fields listed below:

I. BANKING AND FINANCE

Economics 141	Public Finance
Economics 185	Business Cycles
Commerce 181	Advanced Banking and Foreign Exch.
Commerce 191	Corporation Finance
Commerce 192	Corporate Financial Policies
Commerce 195	Investments

*4 Non-Divisional Electives
*2 Divisional Electives

II. ACCOUNTING

Commerce 171	Advanced Accounting
Commerce 172	Accounting Systems
Commerce 173	Cost Accounting
Commerce 175	Auditing
Commerce 177	Income Tax Procedure
Commerce 151	Production Management
or	
Commerce 191	Corporation Finance

*4 Non-Divisional Electives
*2 Divisional Electives

III. STATISTICS

Economics 171	Advanced Economic Statistics
Economics 172	Advanced Economic Statistics (cont'd.)
Commerce 191	Corporation Finance
**Mathematics 21-22-23	Second Year Mathematics
Mathematics 111	Elementary Mathematical Statistics

*2 Non-Divisional Electives
*4 Divisional Electives

IV. MARKETING, MERCHANDISING, AND ADVERTISING

Economics 124	Principles of Marketing
Commerce 61	Sales Management
Commerce 161	Advertising
Commerce 163	Advanced Course in Marketing
Commerce 165	Retail Distribution

*4 Non-Divisional Electives
*3 Divisional Electives

V. PRODUCTION MANAGEMENT

Commerce 151	Production Management
Commerce 154	Production Management: Theories and Practices
Commerce 155	Personnel Management
Commerce 157	Time and Motion Study
Commerce 158	Management Problems

*4 Non-Divisional Electives
*3 Divisional Electives

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* The electives must receive the approval of the Dean.

** If Mathematics 21-22-23 were elected in the sophomore year, two non-divisional elective courses approval by the Dean may be substituted.

VI. PERSONNEL MANAGEMENT

Commerce 151	Production Management
Commerce 155	Personnel Management
Commerce 156	Personnel Problems
Economics 191	An Introduction to the Labor Problem
Psychology 135	Personnel Psychology
Education 106	General Principles of Occupational Diagnosis and Guidance

*2 Non-Divisional Electives
*4 Divisional Electives

VII. INSURANCE

Economics 121	Risk and Risk-Bearing
Economics 124	Principles of Marketing
Economics 185	Business Cycles
or	
Economics 191	An Introduction to the Labor Problem
Commerce 121	Insurance: Life
Commerce 122	Insurance: Fire, Marine, Bond, and Title
Commerce 191	Corporation Finance

*4 Non-Divisional Electives
*2 Divisional Electives

VIII. FOUNDATION FOR LAW**

Economics 141	Public Finance
Economics 151	Transportation
or	
Economics 153	Public Utilities
Economics 191	An Introduction to the Labor Problem
Economics 197	Government and Business
Commerce 177	Income Tax Procedure
Commerce 191	Corporation Finance
Political Science 81	American State Government
Political Science 134	County Government and Administration
English 44	Public Speaking
or	
English 52	Advanced Composition
Philosophy 91	Philosophy of the State
or	
History 71-72	American History

*3 or 4 Electives in Economics or Commerce (only one can be in Economics)

IX. GENERAL

	Commerce 151	Production Management
	or	
	Commerce 155	Personnel Management
	Commerce 191	Corporation Finance
	Economics 124	Principles of Marketing
Choose one:	Economics 135	Economic History
	Economics 191	An Introduction to the Labor Problem
	Economics 195	Theories of Economic Reform
	Economics 197	Government and Business

*5 or 4 Non-Divisional Electives
*4 or 5 Divisional Electives

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* The electives must receive the approval of the Dean.
** Students in this group omit Commerce 91-92.

X. COMBINED COURSE IN COMMERCE AND LAW

The University offers a combined curriculum which leads to the degree of S.B. in Commerce at the end of four years and LL.B. at the end of six years. The curriculum which must have been entirely completed before the student enters the School of Law is as follows:

Freshman Year

English 1-2-3
Mathematics 4-5-6
Social Science 1-2-3
Natural Science 1-2-3c

Choose one**:
- †French 11-12-13
- †Spanish 11-12-13
- †German 11-12-13

Hygiene 1-2-3
Physical Educ. 1-2-3

Sophomore Year

English 21-22-23
Economics 21-22-23
Economics 41
English 44 or English 45
Political Science 51

Choose two:
- Commerce 66
- Commerce 51
- Commerce 71
- Modern Foreign Language

Choose one:
- Zoology 41, 42
- Botany 41, 43
- Chemistry 1-2-3
- Physics 21-22-23
- Geology 21-22-23
- Mathematics 21-22-23

Junior Year

All of these which were not elected in the sophomore year:
- Commerce 51 ....Business Organization
- Commerce 66 ....General Psychology
- Commerce 71 ....Principles of Accounting

Commerce 72 ....Principles of Accounted (continued)
Economics 81 ......Principles of Money and Banking

Choose one:
- Economics 135 ......Economic History
- Economics 170 ......Economic Statistics
- Economics 191 ......An Introduction to the Labor Problem
- Economics 195 ......Theories of Economic Reform

*2 Non-Divisional Electives
*3 Divisional Electives

Upon completion of the above program (of three years) with grades of C or better on at least half the work, the student enters the School of Law. The degree of S.B. in Commerce is conferred at the end of the fourth year (first year in Law) provided the student has passed all the work of the first year of Law to the satisfaction of the School of Law.

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* The electives must receive the approval of the Dean.

** *At the conclusion of the freshman year in a modern foreign language the student will be required to pass a test in a general reading knowledge of the language. If he fails to pass this test, he will be required to continue language courses without credit until he succeeds in passing the test.*

† The student who is not qualified to pursue the intermediate courses may take courses numbered 1-2-3, which cover both the elementary and intermediate work and prepare one to pursue the advanced courses.

PART FOUR

ACADEMIC DEPARTMENTS

DESCRIPTIONS OF COURSES

In this section are listed and described all courses offered in the regular sessions of the University except those in the professional schools of Law, Medicine, Pharmacy, Public Welfare, and Library Science. For courses in these schools see the special bulletins.

In footnotes to each Department are shown the various requirements for majors.

NOTES ON THE METHOD OF NUMBERING AND COUNTING COURSES

The work of the University, except in the School of Law, is arranged and offered on the quarter system, the regular session being divided into three approximately equal parts called the fall, winter, and spring quarters. The summer session is divided into two terms.

Work is valued and credited by quarter hours, *one such hour being allowed for each classmeeting a week for a quarter, laboratory or field work counting one hour for each two hours of work in laboratory or field and work in studio (art) counting one hour for each three hours. In the following announcements of courses the numbers in parenthesis following the descriptive titles show the credits allowed in quarter hours. In each description will be found the number of actual hours the course meets each week.

In the event that required freshman subjects are taken after a student begins his seventh quarter or required sophomore subjects after he begins his tenth quarter, such subjects carry half credit only. This rule applies to the class registered as freshmen in the year 1925-1926 and to all later registrants.

**Courses numbered from 1 to 10 are for freshmen only, from 11 to 20 are ordinarily for freshmen and sophomores, from 21 to 40 for sophomores, from 41 to 50 for sophomores (but open to juniors or seniors), from 51 to 100 for juniors and seniors, from 101 to 200 for advanced undergraduates and graduates, from 201 to 400 for graduates only. Courses numbered 301 to

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* In the case of elementary courses in foreign language taken by those who do not qualify for the regular freshman courses of collegiate grade the work is counted towards a degree as of the same value as the regular freshman courses.

** Courses in chemistry for undergraduates are grouped by decades under the headings inorganic, analytical, organic, etc.

400 are research courses. Undergraduates may not take courses numbered above 200 except by special permission of the instructor in the course *and* the head of the department. Courses numbered from 1 to 100 carry no credit towards any advanced degree.

*DEPARTMENT OF ART

Associate Professor: RUSSELL T. SMITH.
Visiting Professor: CLEMENS SOMMER.
Visiting Lecturer: WILLIAM MEADE PRINCE.
Instructor: ARNOLD BORDEN.

Courses for Undergraduates

41. THE HISTORY AND APPRECIATION OF MEDIEVAL ART (3).

A survey of the architecture, sculpture, and painting of the Christian world from the beginnings of Christianity through the Gothic period. The development of Early Christian, Byzantine, Romanesque, and Gothic art will be discussed. A lecture course with lantern slides. *Three hours a week, fall quarter.* Professor Smith; Mr. Borden.

42. THE HISTORY AND APPRECIATION OF RENAISSANCE ART (3).

A survey of the architecture, sculpture, and painting of the Renaissance in Europe from the end of the Gothic period through the Baroque period in Italy, France, Spain, the Netherlands, Germany, and England. A lecture course with lantern slides. *Three hours a week, winter quarter.* Professor Smith; Mr. Borden.

43. THE HISTORY AND APPRECIATION OF MODERN ART (3).

A survey of the architecture, sculpture, and painting in the western world from the end of the Renaissance to the present day. A lecture course with lantern slides. *Three hours a week, spring quarter.* Professor Smith; Mr. Borden.

44. ELEMENTARY DRAWING AND SCULPTURE (3).

A general studio course which will entail criticism of representation and design in sculpture and in various black and white mediums such as pencil, crayon, pen and ink, block-printing, etching, and drypoint. When possible, students will work from nature. *Nine studio hours a week, fall quarter. Laboratory fee, $5.00.* Professor Smith; Mr. Borden.

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* The courses in Art are designed to fill two functions in the University program: (1) to give the student with a major in Art a well-rounded knowledge of the historical aspect balanced by a grounding in the technical and creative side; and (2) to give students in other departments the opportunity to study art for its broadening value in the liberal arts program.

The student planning an A.B. with a major in Art must complete Art 41-42-43, and Art 44-45-46 before the junior year. Regular courses in the General College, postponed in order that these courses in Art may be taken, must be completed at some later time.

The undergraduate major in Art consists of from thirty to forty quarter hours beyond the freshman-sophomore requirements. These credit hours should be divided equally between studio and history courses. A student desiring to continue work in architecture, sculpture, or painting should include at least three history courses in his particular field and at least three courses divided between the other two fields. Studio work may be developed in this same way with particular stress given to one phase of art as worked out with the head of the Department.

Persons not regularly enrolled in the University who desire instruction in studio work may obtain special instruction by members of the Art Department at a fee of $1.50 a lesson. Hours are to be be arranged with the individual instructor. All fees for special instruction must be paid at the office of the Art Department. No person not enrolled in the University will be allowed to enter University courses.

45. ELEMENTARY COLOR (3).

A general studio course which will entail criticism of representation and design in various color mediums such as watercolor, oil, tempera, and gouache. When possible, students will work from nature. *Nine studio hours a week, winter quarter. Laboratory fee, $5.00.* Professor Smith; Mr. Borden.

46. ELEMENTARY COMPOSITION, LETTERING, AND PERSPECTIVE (3).

A studio course dealing primarily with the study of composition, with criticism in one or more of the mediums in which the student has shown facility. In the latter part of the course lettering will be studied from the artistic and historical sides, and the elements of perspective will be studied as related to architecture, sculpture, and painting. *Nine studio hours a week, spring quarter. Laboratory fee, $5.00.* Professor Smith; Mr. Borden.

51. MEDIEVAL ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of medieval architecture in the Christian world: Early Christian, Byzantine, Romanesque, and Gothic. The course will consider the significance of specific buildings in the development of the various styles and the relation of these styles to the artistic, social, political, and religious conditions of the period. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, fall quarter.* Professor Smith.

52. RENAISSANCE ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of Renaissance architecture in Europe with particular emphasis on the architecture of Italy. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, spring quarter.* Professor Smith.

53. MODERN ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of architecture in the western world from the end of the Renaissance to the present day with emphasis on the architecture of the late nineteenth and early twentieth centuries. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, fall quarter.* Professor Smith.

61. MEDIEVAL SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of the sculpture of medieval Europe with emphasis on the content and artistic merit of the works discussed. The major part of the course will deal with architectural sculpture of the period. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, fall quarter.* Professor Sommer.

62. RENAISSANCE SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of Renaissance sculpture in all European countries: its background, its flowering, and its decadence. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, winter quarter.* Professor Sommer.

63. MODERN SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent.

A study of European and American sculpture from the end of the Renaissance to the present day. The background and development of contemporary trends will be considered. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, spring quarter.* Mr. Borden.

71. ITALIAN RENAISSANCE PAINTING (3). Prerequisite, Art 41-42-43, or equivalent.

A study of painting in Italy during the fifteenth and sixteenth centuries and its relation to later developments in art. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, winter quarter.* Professor Sommer.

72. SPANISH PAINTING (3). Prerequisite, Art 41-42-43, or equivalent.

A study of Spanish painting beginning with the Middle Ages and culminating with the work of Velasquez and his contemporaries. Illustrated lectures. (Omitted 1939-1940 and 1940-1941.)

73. FRENCH PAINTING (3). Prerequisite, Art 41-42-43, or equivalent.

A study of French painting from 1600 to the present day. The course will place the work of the French School as one of the great art movements of our era. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, spring quarter.* Professor Sommer.

81. ADVANCED FORM AND COLOR (3). Prerequisite, Art 44-45-46, or equivalent.

A studio course dealing with the study of pictorial values and representation, with criticism in advanced problems of drawing, painting, and sculpture. *Nine studio hours a week, fall quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

82. COMPOSITION: PORTRAIT AND LANDSCAPE (3). Prerequisite, Art 44-45-46, or equivalent.

A studio course dealing with advanced composition in portrait and landscape painting and in sculpture. *Nine studio hours a week, spring quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

Courses for Graduates and Advanced Undergraduates

101, 102, 103. SPECIAL STUDIES (3 each). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

These courses are designed for advanced study in the history of art, taking up special fields in detail through reading assignments, weekly reports, and occasional lectures. Assistance may be given to competent juniors, seniors, and graduates who propose further study or research in the field. These courses may be taken separately. *Three hours a week, fall, winter, and spring quarters, on demand.* Professors Smith, Sommer; Mr. Borden.

104. SURFACE ANATOMY (3). Prerequisite, Art 44-45-46, or equivalent. Not counted for graduate credit.

This course, given under the direction of the Department of Anatomy of the School of Medicine, will consist of a series of lectures supplemented by textbook study, the use of anatomical models and charts, and occasional demonstrations on the living model. *Three hours a week, fall quarter. Laboratory fee, $2.00.* Professor Low.

105. MURAL COMPOSITION (3). Prerequisite, Art 81, 82, and 104. Not counted for graduate credit.

An advanced studio course in mural design and figure composition. *Nine studio hours a week, fall quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

106. PAINTING PROCESSES (3). Prerequisite, Art 81, or equivalent. Not counted for graduate credit.

An advanced studio course rounding out the study of the techniques of painting in oil, watercolor, egg tempera, and pastel. Problems in landscape, portrait, and still life will be presented. *Nine studio hours a week, winter quarter. Laboratory fee $5.00.* Professor Smith; Assistant.

107. ADVANCED COMPOSITION (3). Prerequisite, Art 81, 82, or equivalent. Not counted for graduate credit.

A studio course designed to complete the work of the student with a major in art. Projects of original design will be worked out in a chosen field of art expression. The work of other artists will be analyzed for composition and technique. Students will prepare for final exhibition of their work in group or one-man shows. *Nine studio hours a week, spring quarter. Laboratory fee, $5.00.* Professor Smith; Assistant.

108. ILLUSTRATION (3). Not counted for graduate credit.

An advanced studio course which will entail a complete study of the objectives of illustration from the initial approach of the illustrator to the finished drawing. Occasional lectures will be included in the history of illustration, business contacts, reproduction, etc. Models will be used when necessary. *Nine studio hours a week, winter quarter. Laboratory fee, $5.00.* Mr. Prince.

150. AMERICAN ARCHITECTURE (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A comprehensive study of architecture in America: aboriginal Indian architecture, Colonial architecture, and the later movements in the United States up to the present day. Illustrated lectures. (1939-1940 and alternate years.) *Three hours a week, spring quarter.* Professor Smith.

160. AMERICAN SCULPTURE (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A comprehensive study of American sculpture from the Colonial period to the present day. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, spring quarter.* Mr. Borden.

170. MODERN PAINTING (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A study of the movements in western painting since 1800 with particular stress on the trends of the late nineteenth and early twentieth centuries. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, fall quarter.* Professor Sommer.

171. FOUR PAINTERS: RAPHAEL, DURER, REMBRANDT, AND VELASQUEZ (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

An intensive study of the work of four great painters of different schools. Through comparison of their work, the course will take up the relative merits of each man, his technique, and his particular qualifications for greatness. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, spring quarter.* Professor Sommer.

172. AMERICAN PAINTING (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A comprehensive study of painting in America from the Colonial period to the present day: its background, its achievements, and its future. Illustrated lectures. (Omitted 1939-1940 and 1940-1941.)

180. THE HISTORY OF GRAPHIC ARTS (3). Prerequisite, Art 41-42-43, or equivalent. Not counted for graduate credit.

A study of the development of etching, engraving, block-printing, lithography, and other methods of print-making. Illustrated lectures. (1940-1941 and alternate years.) *Three hours a week, winter quarter.* Professor Sommer.

BIBLICAL HISTORY AND LITERATURE

Professors: *J. P. HARLAND, A. C. HOWELL.
Associate Professor: P. H. EPPS (Chairman).

Courses for Undergraduates

85. ARCHAEOLOGY AND THE BIBLE (5).

The results of the explorations and excavations in Palestine will be studied for the light they throw on Biblical history. Attention will be given to the art and civilization of the peoples of the Old Testament, particularly of the pre-exilic period. *Five hours a week, fall quarter.* (See Classics 85). Professor Harland.

86. BIBLICAL HISTORY FROM 536 B.C. TO 400 A.D. (3).

An historical approach which will sketch (a) Jewish history and religious thought from the restoration to the destruction of Jerusalem, (b) the rise of Christianity, and (c) Christianity's coming to terms with Judaism, Hellenism, and the Roman Empire. *Three hours a week, winter quarter.* Professor Epps.

87ab. LITERARY ASPECTS OF THE BIBLE (3 each).

A study of the literary aspects of the Bible in English translation, with discussion of types and forms of literature, historical development of the Bible, the principal translations, and the influence of the Bible on English literature and on the language. (Each part offered in alternate years, 87a in 1941 and 87b in 1940.) *Three hours a week, spring quarter.* (See English 87ab.) Professor Howell.

88. GREEK NEW TESTAMENT (5). Prerequisite: Greek 21-22-23 or equivalent.

One or more of the Gospels will be read, with attention to the grammar, diction, and style of the New Testament writers. *Five hours a week, spring quarter.* (See Classics 88). Professor Epps.

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* Absent on leave, fall quarter, 1939-1940.

Course for Graduates and Advanced Undergraduates

158. GREEK NEW TESTAMENT (5). Prerequisite: Greek 21-22-23 or equivalent.

The Acts of the Apostles, with selections from the Epistles, will be read. Attention is given also to textual criticism, and to the sources and history of the Greek text. *Five hours a week, spring quarter.* (See Classics 158). Professor Epps.

*DEPARTMENT OF BOTANY

Professors: W. C. COKER, H. R. TOTTEN, **J. N. COUCH.
Assistant Professor: J. E. ADAMS.
Research Assistant: ALMA HOLLAND.
Acting Curator: LAURIE STEWART.
Teaching Fellow: H. T. COX.
Assistants: J. A. DOUBLES, G. A. CHRISTENBURY, ALMA WHIFFEN, L. S. OLIVE, GWENDOLYN BURTON, A. W. ZIEGLER, HAROLD EUGENE ORR, ALBERT ERNEST RADFORD, IRENE WELBORN.

Courses for Undergraduates

1. (NATURAL SCIENCE 1). ELEMENTS OF PLANT BIOLOGY (4). Freshman elective; required for the School of Commerce.

An introduction to the study of plants. Emphasis is placed upon the broad biological aspects of the subject and the economic relationships between green plants, bacteria, and pathogenic fungi and man. *Three lecture and two laboratory hours a week, fall, winter, or spring quarter. Laboratory fee, $2.00.* Professors Couch, Adams; Assistants.

2. (NATURAL SCIENCE 2). ELEMENTS OF ANIMAL BIOLOGY (4). Freshman elective; required for the School of Commerce. See Department of Zoology.

3a. (NATURAL SCIENCE 3a). ELEMENTS OF HUMAN PHYSIOLOGY (4). Freshman elective. See Department of Medical Sciences.

3b. (NATURAL SCIENCE 3b). ELEMENTS OF GEOLOGY (4). Freshman elective. See Department of Geology.

3c. (NATURAL SCIENCE 3c.) GEOGRAPHY (4). Freshman requirement for the School of Commerce. See Department of Geology.

41. GENERAL BOTANY (6).

An introduction to the structure, physiology, and classification of plants. Lectures with laboratory and field work. *Four lecture and four laboratory or field trip hours a week, fall, winter, or spring quarter. Laboratory fee, $4.00.* Professors Coker, Totten, Adams; Assistants.

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* For the A.B. with major in Botany, six courses of the level of 41 or higher are required, but, with the consent of the Department, this number may be reduced by certain courses in Botany taken in the General College; 1 course in Bacteriology and 1 in Zoology may, with consent of the Department be considered as part of the major. There are also required 6 courses in allied sciences, which shall include two 5- or 6-hour quarter courses in each of the following sciences, unless the equivalent has been taken in the General College (it is assumed that at least two such courses would have been taken): Zoology, Chemistry, Physics, Geology. Six courses in Departments outside the Division of the Natural Sciences are required.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 178.

** Absent on leave on the Kenan Foundation, winter quarter, 1939-1940.

(This course is given in the first term of the Summer Session as Botany s41.)

42. PHARMACEUTICAL BOTANY AND MICROSCOPICAL PHARMACOGNOSY (3). Prerequisite, General Botany. Required of students in the second year in the School of Pharmacy; elective for candidates for Bachelor of Science; in case of candidates for Bachelor of Arts credit is restricted to students preparing to study medicine and those whose major is to be botany.

The histology of drug plants; the structure of their parts and contents; the localization and identification of crystals, starches, mucilages, gums, oils, resins, glucosides, alkaloids, etc.; microscopical study and identification of crude drugs and their adulterants and some study and identification of their powders. *One lecture and four laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Totten; Assistants.

43. SEED PLANTS (6). Prerequisite, General Botany.

A continuation of general botany, with more advanced work in the structure and classification of seed plants. Special attention is given to the study of the local flora, and of the introduced ornamental plants found in the Arboretum, with some work in the propagation of cultivated plants. *Three lecture and six laboratory or field work hours a week, spring quarter. Laboratory fee, $4.00.* Professor Totten; Assistant.

(This course is given in the second term of the Summer Session as Botany s43.)

Courses for Graduates and Advanced Undergraduates

102. FUNGI (5). Prerequisite, Botany 41, 43 or their equivalent.

A survey of the fungal groups including the true Fungi, Myxomycetes, and Lichens. *Two lecture and six laboratory hours a week, fall quarter. Laboratory fee, $4.00.* Professor Couch.

(This course is given in the first term of the Summer Session as Botany s102.)

103. ALGAE (5). Prerequisite, Botany 41, 43 or their equivalent.

A survey of the Algae including both fresh water and marine groups. *Two lecture and six laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Couch.

*(This course is given for 2½ or 5 quarter hours of credit in the first term of the Summer Session as Botany s103.)

104. BRYOPHYTES (5). Prerequisite, Botany 41, 43 or their equivalent.

A survey of Liverworts and Mosses. *Two lecture and six laboratory hours a week, spring quarter. Laboratory fee, $4.00.* (Not offered in the spring of 1940.) Professor Couch.

*(This course is offered in the first term of the Summer Session as Botany s104.)

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* In the first term of the Summer Session either s103 or s104 will be given according to the demand.

111, 112, 113. ADVANCED WORK IN FUNGI (5 each quarter). Prerequisite, Botany 41, 43 or their equivalent.

The intention of these courses is to prepare students for research in fungi and to give a mycological foundation for work in plant pathology. The three classes of fungi: Phycomycetes (111), Ascomycetes (112), and Basidiomycetes (113), will be offered in successive quarters depending upon the needs of students. Class work includes lectures, and special reports on the literature. Laboratory work includes collection and study of many examples from each class. Considerable emphasis is placed on culturing fungi. Only two of these three courses will be given in any one school year. *Two lecture or report and six laboratory or field trip hours a week. Laboratory fee, $4.00 each quarter.* Professor Couch.

141. FERNS (5). Prerequisite, Botany 41, 43 or their equivalent.

A study of the structure, growth, and classification of the ferns. *Two lecture or report and six laboratory or field work hours a week, fall quarter. Laboratory fee, $4.00.* Professor Coker; Miss Holland.

142. ADVANCED PHARMACOGNOSY (3). Prerequisite, General Botany 41 and Botany 42. Credit in the college is restricted in the same manner as credit for Botany 42.

Advanced study of vegetable drugs; general methods in microanalysis of powdered drugs; preparation of materials for study; microanalysis of typical drugs and their adulterants and mixtures. *One lecture and four laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Adams.

*151, 153, s154. ADVANCED WORK IN THE STRUCTURE AND CLASSIFICATION OF SEED PLANTS (5 each quarter).

For each of these courses the student is expected to collect, prepare herbarium specimens, and classify two plants each from twenty families of seed plants, with notes on the families and sketches to show the principal characteristics of one plant in each of these families. *Two conferences a week with the instructor, fall and spring quarters, and equivalent hours in the second term of the Summer Session. Laboratory fee, $4.00.* Professor Totten.

*s155. DENDROLOGY (5 or 7½).

A taxonomic study of the woody plants of the southeastern states, with extensive field work. *Equivalent of ten or fifteen lecture or report and laboratory or field work hours a week, second term of the Summer Session if there is sufficient demand. Laboratory fee, $4.00.* Professor Totten.

156. PLANT GEOGRAPHY (3).

Discussion of the principles and problems of the geographic distribution of plants. *Three lecture or report hours a week, fall quarter.* Professor Adams.

157. PLANT ANATOMY (5).

Introduction to the developmental anatomy of vascular plants; with some consideration of the phylogenetic aspects of the subject; consideration of and practice in methods of anatomical and cytological microtechnique. *Two lecture or report and six laboratory hours a week, spring quarter. Laboratory fee, $4.00.* Professor Adams.

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* In the second term of the Summer Session either s154 or s155 will be given according to the demand.

162. STUDIES IN THE HISTORY OF BOTANY (3).

Readings and reports. This course may continue for more than one year as the subject advances, credit being given for each repetition. *Three hours a week, winter quarter.* Professor Coker; Miss Holland.

Courses for Graduates

211, 212, 213, s214. PROBLEMS IN FUNGI (5 each quarter). Prerequisite, Consult the Department.

The student is expected to select a problem for investigation under the guidance of the instructor. It is recommended that the research be in the Phycomycetes or Basidiomycetes, and in the special field of taxonomy morphology, physiology, or genetics of fungi. (In the field of genetics Dr. Boche will help direct the students' work). *Fall, winter, and spring quarters, and the first term of the Summer Session. Laboratory fee, $4.00 each quarter.* Professors Coker, Couch.

251, 252, 253, s254. MORPHOLOGY OF SEED PLANTS (5 or 2½ each quarter). Prerequisite, Plant anatomy.

Advanced work in the embryology and anatomy of seed plants. The student is expected to collect and prepare material for the microscopic study of special problems. *Fall, winter, and spring quarters, and the second term of the Summer Session. Laboratory fee, $4.00 a quarter.* Professors Coker, Totten.

301, 302, 303. GRADUATE RESEARCH (5 or 2½ each quarter).

Original work with thesis under the guidance of the instructor. These courses may cover most of the work of the student for several years, credit being given each quarter in accordance with the work done. *Laboratory fee, $4.00 a quarter.* Professors Coker, Totten, Couch, Adams.

*DEPARTMENT OF CHEMISTRY

Professors: R. W. BOST, **A. S. WHEELER, F. K. CAMERON, J. T. DOBBINS, H. D. CROCKFORD.

Associate Professors: F. H. EDMISTER, O. K. RICE, E. C. MARKHAM, ALFRED RUSSELL, J. E. MAGOFFIN (Industrial Research).

Assistant Professors: S. E. SMITH, J. W. WILLIAMS.

Teaching Fellows: H. A. BERNHARDT, R. L. KENYON, L. B. LOCKHART.

Assistants: G. B. BUTLER, D. L. COOK, A. H. GERMANY, H. C. GULLEDGE, W. B. HAPPOLDT, E. A. KACZKA, J. A. KRYNITSKY, J. H. LANGSTON, V. E. LUCAS, W. T. RAINEY, H. C. SCHULTZE, J. C. SPECK, C. J. STARNES, R. M. THOMAS, L. UPSHUR, L. WHITE.

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* For the A.B. with major in Chemistry (primarily for students preparing for medicine) these are required: Chemistry 31, 41, 42, 61, 62, 63. Six courses in other natural sciences and six courses in departments outside the Division of the Natural Sciences are required also.

For the S.B. in Chemistry see page 123.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 178.

** Kenan Professor *emeritus*.

Courses for Undergraduates

1-2-3. GENERAL DESCRIPTIVE CHEMISTRY (12).

An introduction to the study of the principal non-metallic and metallic elements and their compounds. Lectures with laboratory work. *Three lecture and two laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 a quarter.* Professors Markham, Smith; Assistants.

4-5. GENERAL DESCRIPTIVE CHEMISTRY (12).

An introduction to the study of the principal non-metallic and metallic elements and their compounds. This course is equivalent to Chemistry 1-2-3. *Five lecture and three laboratory hours a week, winter and spring quarters. Laboratory fee, $4.50 a quarter.* Professors Markham, Smith; Assistants.

31. QUALITATIVE ANALYSIS (6). Prerequisite, Chemistry 1-2-3 or equivalent.

Laboratory work and lectures. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

41. ELEMENTARY QUANTITATIVE ANALYSIS: GRAVIMETRIC (6). Prerequisite, Chemistry 31.

Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professor Dobbins; Assistants.

42. ELEMENTARY QUANTITATIVE ANALYSIS: VOLUMETRIC (6). Prerequisite, Chemistry 31.

Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, winter or spring quarter. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

61, 62, 63. ORGANIC CHEMISTRY (6 each). Prerequisite, Chemistry 31.

Aliphatic, aromatic, and certain heterocyclic compounds. *Three lecture and six laboratory hours a week. Chemistry 61 is offered in the fall, Chemistry 62 in the winter, and Chemistry 63 in the spring. Laboratory fee, $10.00 a quarter.* Professors Bost, Russell, Williams.

83. PHYSICAL CHEMISTRY FOR STUDENTS OF BIOLOGY (5). Prerequisite, Chemistry 31, 42, and Math. 1, 2, 3. Does not carry credit toward S.B. in Chemistry.

Designed for A.B. students or students taking pre-medical, pharmaceutical, or biological work. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Professors Crockford, Rice.

Courses for Graduates and Advanced Undergraduates

101. SPECIAL PROBLEMS IN CHEMISTRY (1 to 3). Prerequisite, to be determined by consultation.

Special assignments in library work, laboratory, or minor research. *Equivalent of one to three hours a week, every quarter. Laboratory fee, to be determined by consultation.* Any member of the departmental staff.

143. THEORETICAL ANALYTICAL CHEMISTRY (6). Prerequisite, Chemistry 31, 41, 42.

A detailed study of the reactions of all the common metallic and acidic ions from the standpoint of mass action, solubility product, and oxidation and reduction. This course is designed to give a comprehensive review of inorganic and analytical chemistry. *Six hours a week, winter quarter.* Professor Dobbins.

145. GAS ANALYSIS (3). Prerequisite, Chemistry 41, 42.

Quantitative analysis of gases by the Orsat Method, by thermal conductivity, and by low temperature fractionation. *Six laboratory hours a week, fall quarter. Laboratory fee, $7.00.* Professor Markham.

146. INSTRUMENTAL ANALYSIS (3). Prerequisite, Chemistry 41, 42.

The application of such methods as colorimetry, nephelometry, and electrometric titrations. *Six laboratory hours a week, winter quarter. Laboratory fee, $7.00.* Professor Markham.

147 (147-a). QUANTITATIVE ORGANIC MICROANALYSIS (3). Prerequisite, Chemistry 41, 42, 63.

The course will include the use of the microbalance and involve such determinations as neutralization equivalent, Kjeldahl and Dumas nitrogen, carbon and hydrogen, halogens and sulfur, molecular weights. *Six laboratory hours a week, spring quarter. Laboratory fee, $7.00.* Professor Markham.

148 (147-b). INORGANIC MICROANALYSIS (3). Prerequisite, Chemistry 41, 42.

The course will include qualitative and quantitative analysis on milligram samples and an introduction to chemical microscopy and the use of the polarizing microscope. *Six laboratory hours a week, spring quarter. Laboratory fee, $7.00.* Professor Markham.

151, 152, 153. ADVANCED INORGANIC CHEMISTRY (3 each). Prerequisite, Chemistry 181. *Three hours a week, fall, winter, and spring quarters.* Professor Edmister.

163. QUALITATIVE ORGANIC ANALYSIS (6). Prerequisite, Chemistry 61, 62, 63.

A study of the theory of solubility, homology, class reactions, and the functional groups in organic compounds. Individual substances and complex mixtures are studied. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professors Bost, Russell, Williams.

164. QUANTITATIVE ANALYSIS OF FUNCTIONAL GROUPS (3). Prerequisite, Chemistry 163.

The quantitative determination of the common functional groups such as hydroxyl, carboxyl, amino, methoxy, nitro, ester, and similar groups. *Six laboratory hours a week, winter quarter. Laboratory fee, $7.00.* Professors Bost, Russell, Williams.

165. ORGANIC COMBUSTIONS (3). Prerequisite, Chemistry 163.

The ultimate analysis of carbon, hydrogen, nitrogen, sulfur, halogens, and certain other elements by well established methods. *Six laboratory hours a week, spring quarter. Laboratory fee, $7.00.* Professors Bost, Russell, Williams.

166-a, 167-a, 168-a. ADVANCED ORGANIC CHEMISTRY (3 each). Prerequisite or co-requisite, Chemistry 163.

A topical course dealing with such subjects as stereoisomerism, carbohydrates, alkaloids, proteins, dyes, drugs, heterocyclics, terpenes, polynuclear compounds, theories of organic chemistry. *Three hours a week, fall, winter, and spring quarters.* Professors Bost, Russell, Williams.

166-b, 167-b, 168-b. ADVANCED ORGANIC PREPARATIONS (3 each). Prerequisite or co-requisite, Chemistry 163.

Syntheses, identification, and studies in orientation. *Six laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Professors Bost, Russell, Williams.

181, 182, 183. PHYSICAL CHEMISTRY (6 each). Prerequisite, Chemistry 31, 41, 42, 61, 62, 63, and satisfactory work in physics and in integral and differential calculus.

An introductory study of the properties and behavior of gases, liquids, and crystals; elementary thermodynamics; homogeneous and heterogeneous equilibrium; solution theory; chemical kinetics; elementary principles of electrical conduction, galvanic cells, etc.; photochemistry and atomic structure. *Four lecture and four laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $7.00 a quarter.* Professors Crockford, Rice.

184, 185, 186. CHEMICAL THERMODYNAMICS (3 each). Prerequisite, Chemistry 181, 182, 183.

A study of chemical thermodynamics and electrochemistry with special emphasis on recent developments in these fields. (1940-1941 and alternate years.) *Three hours a week, fall, winter, and spring quarters.* Professor Crockford.

191, 192, 193. INDUSTRIAL CHEMISTRY (3 each). Prerequisite, Chemistry 61, 62, 63.

The methods and economics of the chemical industries. *Three hours a week, fall, winter, and spring quarters.* Professor Cameron.

Courses for Graduates

231. DETECTION OF POISONS (6). Prerequisite, Chemistry 31, 42, 61, 62, 63.

The isolation from extraneous material, identification, and quantitative estimation of small quantities of the common industrial and medicinal poisons. (1941-1942 and alternate years.) *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professor Dobbins.

241, 242, 243. SEMINAR IN ANALYTICAL CHEMISTRY (3 each). Prerequisite or co-requisite, Chemistry 143.

A critical study of the general principles and techniques used in analytical chemistry. (1940-1941 and alternate years). *Three hours a week, fall, winter and spring quarters.* Professor Dobbins.

244, 245, 246. SPECIAL TOPICS IN ANALYTICAL CHEMISTRY (3 each). Prerequisite, Chemistry 143, 183.

The study of such topics as colloids, adsorption, and inorganic complexes and their importance in analytical chemistry. (1941-1942 and alternate years). *Three hours a week, fall, winter, and spring quarters.* Professor Markham.

251. SEMINAR IN INORGANIC CHEMISTRY (3). Prerequisite, Chemistry 151, 152, 153.

Three hours a week, fall quarter. Professors Cameron, Edmister.

258-259 (252, 253). HISTORY OF CHEMISTRY (3 each). Prerequisite, Chemistry 31, 61, 62.

Historical background of chemistry. Biographical sketches of eminent scientists. Development of chemical laws and theories. *Three hours a week, winter and spring quarters.* Professor Edmister.

261, 262, 263. STUDIES IN THE CHEMISTRY OF PETROLEUM HYDROCARBONS AND ORGANIC SULFUR COMPOUNDS (3 each). Prerequisite, Chemistry 166-a, b, 167-a, 168-a.

(1940-1941 and alternate years). *Three hours, or equivalent, a week, fall, winter, and spring quarters.* Professor Bost.

264, 265, 266. NATURAL PLANT PRODUCTS (3 each). Prerequisite, Chemistry 166-a, b, 167-a, 168-a.

(1941-1942 and alternate years). *Three hours, or equivalent, a week, fall, winter, and spring quarters.* Professor Russell.

267. ORGANIC CHEMISTRY (3 to 6). Prerequisite, to be determined by consultation with professor in charge.

A survey course. Special problems in organic chemistry. *Three to six hours a week, every quarter. Laboratory fee, to be determined by consultation with professor in charge.* Professors Bost, Russell, Williams.

281, 282, 283. ADVANCED TOPICS IN PHYSICAL CHEMISTRY I (3 each). Prerequisite, Chemistry 181, 182, 183.

(1940-1941 and alternate years). *Three hours a week, fall, winter, and spring quarters.* Professors Cameron, Crockford, Rice.

284, 285, 286. ADVANCED TOPICS IN PHYSICAL CHEMISTRY II (3 each). Prerequisite, Chemistry 181, 182, 183.

A statistical approach to the problems of chemistry, including a discussion of modern theory of chemical kinetics, photochemistry, and quantum chemistry. *Three hours a week, fall, winter, and spring quarters.* Professor Rice.

287, 288, 289. HETEROGENEOUS EQUILIBRIA, PHASE RULE, FILM AND COLLOIDAL PHENOMENA (3 each).

Fall, winter, and spring quarters. Professor Cameron.

RESEARCH COURSES.

These courses are intended for applicants for advanced degrees. Laboratory work with frequent conferences with the professor and reference to the literature relating to the subject of research. The subject of research must be assigned or approved by the professor. A student may spend part or all of his time in research. *Laboratory fee, $10.00 a course.*

341. ANALYTICAL CHEMISTRY (5 or more).
Professors Dobbins, Markham.

351. INORGANIC CHEMISTRY (5 or more).
Professor Edmister.

361. ORGANIC CHEMISTRY (5 or more).
Professors Bost, Russell, Williams.

381. PHYSICAL CHEMISTRY (5 or more).
Professors Cameron, Crockford, Rice, Smith.

391. INDUSTRIAL CHEMISTRY (5 or more).
Professor Cameron.

*DEPARTMENT OF CLASSICS

Professors: G. A. HARRER, **J. P. HARLAND, S. G. SANDERS.
Associate Professors: R. P. JOHNSON, P. H. EPPS.
Instructor: A. I. SUSKIN.
Teaching Fellow: J. B. OLIVER.

*GREEK

Courses for Undergraduates

***1-2-3. ELEMENTARY AND INTERMEDIATE GREEK (†9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate Greek (11-12-13). The completion of Greek 1-2-3 gives credit for Greek 11-12-13. *Six hours a week, through the year.* Professor Epps.

NOTE: Attention is called to Greek 14-15-16, designed for upperclassmen who have fulfilled the requirement in another foreign language.

***11-12-13. INTERMEDIATE GREEK (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and sophomore elective. *Three hours a week, through the year.* Professor Sanders.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially well qualified for such study. Sophomore elective. *Three hours a week, through the year.* Professor Epps.

21-22-23. ADVANCED GREEK (9). Prerequisite, 1-2-3 or 11-12-13 or equivalent.

Fall quarter, Greek prose; winter quarter, Greek poetry; spring quarter, Plato's *Apology. Three hours a week.* Professor Epps.

NOTE: Students so desiring may substitute Greek 88 for Greek 23.

71. GREEK HISTORIANS (5). Prerequisite, Greek 21-22-23 or equivalent.

Selections from the Greek Historians, chiefly Herodotus, will be read and reports will be made on related topics in Greek History. *Five hours a week, one quarter, on application.* Professor Harland.

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* Students interested in having their major in Greek or Latin should consult the Department in the last quarter of their sophomore year.

Those students who plan to teach Greek or Latin in public high schools should read the footnote at the bottom of page 178.

** Absent on leave, fall quarter, 1939-1940.

*** A year of Greek or Latin or Mathematics 1-2-3 or the equivalent must be taken by each candidate for A.B.

† The elementary portion of 1-2-3 carries no credit towards a degree, but the tuition charge is for *six hours* a week—the actual time devoted to instruction.

81. THE GREEK ORATORS (5).

Select orations from Lysias and Demosthenes. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Epps.

82. PLATO (5). Prerequisite, Greek 21-22-23 or equivalent.

Reading of the *Gorgias* or the *Republic* (*ex parte*), with attention to the dialogue as a form of philosophical expression and to the perennial problems raised and discussed in these works. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Epps.

88 (58). GREEK NEW TESTAMENT (5). Prerequisite, Greek 21-22-23 or equivalent.

One or more of the Gospels will be read, with attention to the grammar, diction, and style of the New Testament writers. *Five hours a week, spring quarter.* Professor Epps.

Courses for Graduates and Advanced Undergraduates

112. HOMER (5). Prerequisite, Greek 21-22-23 or equivalent.

Rapid reading of the *Odyssey* with Homeric study. *Five hours a week, fall quarter.* (1941-1942 and alternate years.) Professor Epps.

153. GREEK TRAGEDY (5). Prerequisite, Greek 21-22-23 or equivalent.

A reading of select Greek tragedies, with attention to the origin, structure, and history of Greek tragedy. *Five hours a week, winter quarter.* (1941-1942 and alternate years.) Professor Epps.

154. GREEK COMEDY (5). Prerequisite, Greek 21-22-23 or equivalent.

Select comedies of Aristophanes and Menander will be read and attention paid to the Greek comic form and characteristics, and to the differences in the old and the new comedy. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Epps.

158. GREEK NEW TESTAMENT (5). Prerequisite, Greek 21-22-23 or equivalent.

The Acts of the Apostles, with selections from the Epistles, will be read. Attention is given also to textual criticism, and to the sources and history of the Greek text. *Five hours a week, spring quarter.* Professor Epps.

171. GREEK HISTORIANS (5). Prerequisite, Greek 71.

Selections from Thucydides will be read and the history of Athens and Sparta will be reviewed with a view to explaining the underlying causes of the Peloponnesian War. *Five hours a week, one quarter, on application.* Professor Harland.

Courses for Graduates

213. HELLENIC LITERATURE AND ITS HISTORICAL SETTING (5).

In a survey of the history of Hellenic literature, selections from representative authors of each period will be read in the original. This reading will be supplemented by reports on important writers and works of each period. *Five hours a week, one quarter, on application.* Professor Harland.

301-302-303. GREEK SEMINAR (15).

This course is devoted to the study in detail of particular authors or periods in Greek literature, the subject matter varying from year to year. It calls for wide reading in the Greek authors selected and in the critical literature concerning them, with oral and written reports. Lectures and conferences. *Five hours a week, on application.* Professors Harland, Sanders, Epps.

(For additional courses see below under Courses Requiring no Knowledge of the Greek or Latin Languages, and under General and Comparative Literature.)

*LATIN

Courses for Undergraduates

**1-2-3. ELEMENTARY AND INTERMEDIATE LATIN (†9).

The course is designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate Latin (11-12-13). The completion of Latin 1-2-3 gives credit for Latin 11-12-13. *Six hours a week, through the year.* Dr. Suskin, Mr. Oliver.

NOTE: Attention is called to Latin 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

*11-12-13. INTERMEDIATE LATIN (9).

The course is designed for those who show evidence of adequate preparation. Students entering with two units of Latin may be admitted. Readings in classical authors, including Cicero and Vergil. Freshman and sophomore elective. *Three hours a week, through the year.* Dr. Suskin.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

The course is designed for beginners, open only to those who desire an introduction to a second foreign language, and who give evidence of being especially well qualified for such study. *Three hours a week, through the year.* Dr. Suskin.

21-22-23. ADVANCED LATIN (9). Prerequisite, four units of High School Latin, or Latin 1-2-3 or 11-12-13.

The course will present a survey of Latin literature, with selected readings from representative writers of prose and poetry. Freshman and sophomore elective. *Three hours a week, through the year.* Professor Sanders.

24-25. ROMAN LAW (6). Prerequisite, Latin 21.

The course is a sophomore option of A.B.-LL.B. students, and is open to other students who have completed the prerequisite work.

The course deals with the general principles and the historical development of Roman law. The work consists of the translation of selected passages in the legal literature, readings, and lectures. *Three hours a week, winter and spring quarters.* Professor Harrer.

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* See notes on the major and teacher-training under Greek.

** A year of Greek or Latin or Mathematics 1-2-3 or the equivalent must be taken by each candidate for A.B.

† The elementary portion of 1-2-3 carries no credit towards a degree, but the tuition charge is for *six hours* a week—the actual time devoted to instruction.

51. ROMAN SATIRE (5). Prerequisite, Latin 21-22-23.

Readings from Horace, Petronius, Persius, Juvenal; occasional lectures. This course alternates with course 52. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Sanders.

52. CICERO'S LETTERS (5). Prerequisite, Latin 21-22-23.

The reading of selected letters and discussions of the history and politics of the time. This course alternates with course 51. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Sanders.

53. LATIN LYRIC POETRY (5). Prerequisite, Latin 21-22-23.

Readings in the lyric verse of Catallus and Horace. The origin and development of the Latin Lyric and its influence upon later literature. *Five hours a week, spring quarter.* Professor Johnson.

71. COURSE FOR TEACHERS (5). Prerequisite, Latin 21-22-23.

This course includes a systematic review of grammar through prose composition, a study of Caesar, Cicero, and Vergil, the basic authors read in secondary instruction, the political background of their period, and illustrated lectures on the topography of the city of Rome. *Five hours a week, fall quarter.* Professor Johnson.

Courses for Graduates and Advanced Undergraduates

101. ROMAN HISTORICAL LITERATURE (5). Prerequisite, Latin 21-22-23.

A study of the structure, purposes, and methods of the most significant works. Translation and reading in English from the literature, reports, lectures. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Harrer.

102. ROMAN DRAMATIC LITERATURE (5). Prerequisite, Latin 21-22-23.

A study of the development of Latin comedy and tragedy. Reading of selected plays. The course alternates with course 101. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Harrer.

103. PROSE WRITINGS OF THE REPUBLIC (5). Prerequisite, Latin 21-22-23.

An account of the development of prose literature from Cato to Cicero, with special studies of certain types of readings from the chief works. *Five hours a week, winter quarter.* Professor Sanders.

104. CICERO: POLITICAL CAREER AND WORKS (5). Prerequisite, Latin 21-22-23.

A study of Cicero, as statesman and advocate. Selected letters, as well as a number of orations, will be read. *Five hours a week, spring quarter.* Professor Harrer.

105. THE SATIRES OF JUVENAL (5). Prerequisite, Latin 21-22-23.

Translations and interpretation, with a survey of the history of the period. *Five hours a week, fall quarter.* Professor Sanders.

110. MEDIAEVAL LATIN (5). Prerequisite, Latin 21-22-23 or the equivalent, as a minimum.

An introduction to Mediaeval Latin as a language and literature, with special attention to its relationship with Classical Latin. Assigned readings, papers, lectures on significant authors. *Five hours a week, winter quarter, on application.* Professor Johnson.

Courses for Graduates

202. LATIN EPIGRAPHY (5).

The aim of the course is to acquire facility in the deciphering and translating of inscriptions, and to study in detail a selection of significant inscriptions and their values in the field of Roman studies. *Five hours a week, fall quarter.* Professor Harrer.

203. LATIN PALEOGRAPHY (5).

The aim of the course is a study of the more important scripts, practice in decipherment, and the methods of textual criticism. *Five hours a week, one quarter, on application.* Professor Harrer.

301, 302, 303. LATIN SEMINAR (5 each).

The course in each quarter is devoted to the study in detail of a particular author or period in Roman literature, the choice of subject being determined, as far as possible, by the needs of the group. Typical subjects of recent years have been: Catullus, Cicero, Vergil, Horace, The Elegists, The Augustan Age, Suetonius, Tacitus, Post-Augustan Prose, Post-Augustan Poetry, etc. *Five hours a week, fall, winter, and spring quarters.* Professors Harrer, Johnson, Sanders.

310. THESIS COURSE (5).

This course is conducted by conferences as arranged with individual students. *Every quarter.* Professor Harrer.

Courses Requiring no Knowledge of the Greek or Latin Language

The following courses in classical literature and civilization are especially designed to supply the necessary foundation for those who, without a reading knowledge of the ancient languages, wish a broader culture, or plan to specialize in modern literature, history, art, etc. When properly approved, they will be allowed to count as part of the major requirement in other departments. They may be taken also to satisfy the requirement of a minor in literature. See also under General and Comparative Literature.

Courses for Undergraduates

50. GREEK AND ROMAN LITERATURE (5).

A course on the great authors of Greece and Rome. Emphasis is on understanding the classics as literature and as a reflection of the civilization, culture, and viewpoints of antiquity. *Five hours a week, winter quarter.* Professors Epps, Harrer.

61. GREEK LITERATURE (5).

A survey of Greek literature in English translation with special reference to the contribution of Greece to modern thought and to literary forms. *Five hours a week, fall quarter.* Professor Epps.

62. LATIN LITERATURE (5).
A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Professor Sanders.

64. GREEK AND ROMAN COMEDY (5).
Extensive reading of the comedies of Aristophanes, Menander, Plautus and Terence in English translation, with attention to the form and characteristics of each and to the history of comedy in the Greek and Roman world. *Five hours a week, winter quarter.* Professors Epps, Harrer.

75. GREEK CIVILIZATION (5).
The achievements of the ancient Greeks and their contributions to the modern world in art, architecture, medicine, science, politics, and other fields will be studied. For a background, their house, dress, education, games, theatre, religion, etc. will be considered. Illustrated lectures and discussions. *Five hours a week, winter or spring quarter.* Professor Harland.

76. ROMAN CIVILIZATION (5).
The course deals with the public institutions, the political and social conditions, and the private life of the Romans, their buildings, living conditions, amusements, manners and customs, and religion. *Five hours a week, spring quarter.* Professor Johnson.

85. ARCHAEOLOGY AND THE BIBLE (5).
The results of the explorations and excavations in Palestine will be studied for the light they throw on Biblical history. Attention will be given to the art and civilization of the peoples of the Old Testament, particularly of the Pre-exilic period. *Five hours a week, fall quarter.* Professor Harland.

86. BIBLICAL HISTORY FROM 536 B.C. TO 400 A.D. (3).
An historical approach which will sketch (a) Jewish history and religious thought from the restoration to the destruction of Jerusalem, (b) the rise of Christianity, and (c) Christianity's coming to terms with Judaism, Hellenism, and the Roman Empire. *Three hours a week, winter quarter.* Professor Epps.

91. ARCHAEOLOGY OF THE NEAR EAST (5).
An introductory course in which the art and architecture of Egypt, Mesopotamia, the Hittites, and the Aegean ("Prehistoric Greek") World will be studied. Illustrated lectures on the monuments will be supplemented by lectures on the branches and methods of archaeology and on the civilization of the various peoples. *Five hours a week, fall quarter.* Professor Harland.

92. GREEK ARCHAEOLOGY (5).
The historical development of the art of Greece will be studied from the Bronze Age through the historical period. The course will deal mainly with Greek architecture, but painting and the other arts will receive attention. Illustrated lectures and required reading. *Five hours a week, winter quarter.* Professor Harland.

93. GREEK SCULPTURE (5).
The development of Greek sculpture will be studied and this art will be presented as one phase of the civilization of the ancient Hellenes. Illustrated lectures and required reading. *Five hours a week, spring quarter.* Professor Harland.

Courses for Graduates and Advanced Undergraduates

103. GREEK AND ROMAN EPIC (5).

Homer's Iliad and Odyssey, Vergil's Aeneid, and the minor Greek and Roman epics. The ancient epic forms and characteristics will be studied. *Five hours a week, spring quarter.* Professors Epps, Harrer.

107. GREEK DRAMATIC LITERATURE (5).

Extensive reading of the Greek tragedies, with attention to the origin, development, and content of Greek drama, and the Greek approach to life as presented in Greek tragedy. *Five hours a week, fall quarter.* Professor Epps.

193. HELLENIC ART (Greek Art) (5). Prerequisite, Archaeology 92 or 93, or Greek 75, or Greek History.

The art of Hellas (Greece) will be studied as one phase of the civilization of the Hellenes. In a sense, the course will be an archaeological commentary on Hellenic history. *Five hours a week, one quarter, on application.* Professor Harland.

195. THE AEGEAN CIVILIZATION (of the Bronze Age) (5). Prerequisite, Archaeology 91, or Ancient History.

The civilization which developed in the Aegean Basin (Greece, Krete, and the Aegean Islands) will be studied and the relations with Troy, the Danube Valley, and in general the Ancient Near East. The connections between the civilization of the Aegean Bronze Age and the culture of Classical Greece will receive special attention. *Five hours a week, one quarter, on application.* Professor Harland.

Courses for Graduates

211. ARCHAEOLOGY: TOPOGRAPHY OF ATHENS, OLYMPIA, AND DELPHI (5). Prerequisite, ability to read Greek desirable.

A study of the material and artistic remains at these sites and of their historical, literary, and mythological associations. *Five hours a week, one quarter, on application.* Professor Harland.

291. ARCHAEOLOGY OF THE ANCIENT NEAR EAST (5). Prerequisite, Archaeology 91 or courses in Ancient History of the Near East.

The architecture, sculpture, and other arts of Egypt, Babylonia, Assyria, Persia, and of the Hittites will be studied. Special attention will be given to the contributions made to the modern world by the Egyptians, Sumerians, and other peoples of the Ancient Near East. *Five hours a week, one quarter, on application.* Professor Harland.

292. HELLENIC ARCHITECTURE (5). Prerequisite, Archaeology 91 or 92 or 93 or Ancient History.

The beginnings of architecture in Hellas and its development will be studied with special emphasis on the Periclean buildings at Athens. *Five hours a week, one quarter, on application.* Professor Harland.

293. HELLENIC SCULPTURE (5). Prerequisite, Archaeology 92 or 93 or 75 or Ancient History.

Sculpture will be studied as one phase of the civilization of the Hellenes; and the interrelation of sculpture with the fields of architecture and painting in the Classical Period will receive special attention. *Five hours a week, one quarter, on application.* Professor Harland.

296. GREEK EPIGRAPHY (5). Prerequisite, a reading knowledge of Greek.

The origin of the alphabet and the development of the various epichoric alphabets of the Hellenes will be studied. Selected inscriptions will be read. *Five hours a week, one quarter, on application.* Professor Harland.

DEPARTMENT OF COMPARATIVE LINGUISTICS

DEAN W. W. PIERSON, *Chairman*
Professors: E. E. ERICSON, G. A. HARRER, U. T. HOLMES.
Associate Professors: R. S. BOGGS, G. S. LANE.

General

101. INTRODUCTION TO THE HISTORICAL STUDY OF LANGUAGE (5). Prerequisite, a reading knowledge of one classical language and French or German.

The course will include practical phonetics, phonetic change, morphologic change, the comparative method, and a survey of language families with special emphasis on Indo-European. *Five hours a week, fall quarter.* Professor Lane.

103. THE INDO-EUROPEANS (5). Introduction to their pre-history, culture, and comparative grammar. *Five hours a week, spring quarter.* Professor Lane.

105. CELTIC: OLD IRISH (5). See under Romance Languages (French).

Five hours a week, on demand. Professor Holmes.

106. CELTIC: WELSH (5).

Five hours a week, winter quarter. Professor Holmes.

201, 202, 203. SANSKRIT (5 each).

Elements of the grammar of Classical Sanskrit, with reading of prose and selected poetic texts. The course is intended to fit the needs of students interested primarily in either Indic philology or Indo-European linguistics. *Five hours a week, through the year.* Professor Lane.

204. COMPARATIVE GRAMMAR OF GREEK AND LATIN (5).

The course is designed to furnish the student of the Classics with fundamental notions regarding the development of both languages from the parent Indo-European speech. *Five hours a week, winter quarter, on demand.* Professor Lane.

206. LITHUANIAN (5).

Elementary Lithuanian grammar and readings with introduction to Balto-Slavic linguistics and with reference to other branches of Indo-European. *Five hours a week, winter quarter.* Professor Lane.

207. CHURCH SLAVIC (5).

Elements of the grammar of Old Church Slavic and readings from the gospels with an introduction to comparative Slavic grammar. Designed as a continuation of 206. *Five hours a week, spring quarter.* Professor Lane.

361, 362, 363. SEMINAR IN LINGUISTICS (5 each).
The subject matter will be determined by the needs of the students. *Five hours a week, through the year.* Members of the staff.

English Linguistics

101. OLD ENGLISH GRAMMAR AND READINGS (5). See under English.
Five hours a week, fall quarter. Professor Ericson.

201. STUDIES IN OLD ENGLISH LITERATURE: BEOWULF (5). See under English.
Five hours a week, winter quarter. Professor Ericson.

202. MIDDLE ENGLISH (5). See under English.
Five hours a week, spring quarter. Professor Coffman (of the Department of English).

204. HISTORY OF THE ENGLISH LANGUAGE (5). See under English.
Five hours a week, spring quarter. Professor Ericson.

Germanic Linguistics

161. HISTORY OF THE GERMAN LANGUAGE (5). See under Germanic Languages).
Five hours a week, fall quarter. Professor Lane.

221. GOTHIC (5). See under Germanic Languages.
Five hours a week, fall quarter. Professor Lane.

222. OLD HIGH GERMAN (5). See under Germanic Languages.
Five hours a week, winter quarter. Professor Lane.

223. COMPARATIVE GERMANIC GRAMMAR (5). See under Germanic Languages.
Five hours a week, spring quarter. Professor Lane.

232. OLD SAXON (5). See under Germanic Languages.
Five hours a week, winter quarter. Professor Lane.

233. OLD NORSE (5). See under Germanic Languages.
Five hours a week, spring quarter. Professor Lane.

235-236. MIDDLE HIGH GERMAN (10). See under Germanic Languages.
Five hours a week, winter and spring quarters. Professor Jente.

Romance Linguistics

126. HISTORY OF THE FRENCH LANGUAGE (5). See under Romance Languages.
Five hours a week, winter quarter. Professor Holmes.

221-222-223. OLD FRENCH (15). See under Romance Languages.
Five hours a week, fall, winter, and spring quarters. Professor Holmes.

221. OLD ITALIAN (5). See under Romance Languages. *Five hours a week, fall quarter.* Professor Holmes.

221-222. OLD SPANISH (10). See under Romance Languages. *Five hours a week, fall and winter quarters.* Professor Boggs.

*DEPARTMENT OF DRAMATIC ART

Professors: F. H. KOCH, PAUL GREEN, G. R. COFFMAN.
Associate Professors: SAMUEL SELDEN, R. B. SHARPE.
Assistant Professors: **H. E. DAVIS, JOHN W. PARKER.
Instructors: EARL WYNN, ORA MAE DAVIS.
Assistants: FRANK GUESS, CATHERINE MALLORY, FREDERICK WALSH, LAWRENCE WISMER.

Admission to the Department of Dramatic Art presupposes the completion of the work of the General College in this institution or of equivalent work done elsewhere.

The courses in the Department of Dramatic Art are designed to give the student a comprehensive knowledge of the literature of the drama and intensive training in all phases of theatre work, from the writing of the play to the completed presentation before an audience.

Intensive study and research in all phases of dramatic art are made effective through introductory and advanced lecture courses, the seminar, and supervised practice work in theatre technique. The library resources for the student of dramatic literature and history of the theatre include a large and constantly increasing collection of critical and technical works and plays of all periods.

Practical training for the student of playwriting, acting, directing, and technical work is provided by the production unit of the Department of Dramatic Art, The Carolina Playmakers. The Playmakers Theatre building, the Forest Theatre, and the scene shop furnish ample opportunity for the student to test theory with practice, in both experimental and public performances.

Courses for Undergraduates

50. SHAKESPEARE (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. Scenes from the principal plays will be experimentally presented on the stage. *Five hours a week, spring quarter.* Professor Koch, Mr. Wynn.

55. VOICE TRAINING FOR STAGE AND RADIO (5).

Improvement of the voice as a speaking and reading instrument and the study and application of a standard, non-provincial, American diction are the main objectives of this course. Each student's aim for the quarter is to overcome his own voice and diction difficulties and his speech faults. Semi-private, instruction-practice groups are set up and individual voice recordings are made to assist him in achieving these ends. Required in a major in Dramatic Art. Not open to students in other departments. *Five class and one laboratory hour a week, every quarter. Fee for materials, $2.00.* Mr. Wynn.

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* Requirements for an undergraduate with a major in Dramatic Art.
A minimum of eighteen courses distributed as follows:
Three courses in playwriting: (155, 156, 157) and Theatre Arts: (61, 62, 63, 64, 65, 66, 67).
Two courses in dramatic literature: American Drama (149), History of the Theatre (160) Comparative Drama (161), Modern Drama (162).
One course in Shakespeare (50).
One course in Voice Training for Stage and Radio (55).
Five to seven courses in allied departments of the Division of the Humanities, to be taken after conference with the Head of the Department.
Four to six courses from other divisions.

** Absent on leave 1939-1940.

61. ACTING (5).

Training in the technique of acting. *Five hours class work a week, fall quarter. Fee for materials, $2.00.* Professor Selden, Mrs. Davis.

62. REHEARSALS AND PERFORMANCE (5).

The theory and practice of ensemble acting from the point of view of both the actor and the director. *Five hours class work a week, winter quarter. Fee for materials, $2.00.* Professors Selden, Davis.

63. PLAY DIRECTION (5). Prerequisite, Dramatic Art 61 or 62.

The theory and practice of play directing. *Registration in Dramatic Art 63 is limited. Before registering for this course, students must secure the permission of Professor Selden. Two hours lecture and six hours practical work a week, spring quarter. Fee for materials, $2.00.* Professors Selden, Davis.

64. SCENERY CONSTRUCTION AND PAINTING (5).

Elementary theory and practice in the construction and painting of scenery for the stage. *Two hours lecture and six hours laboratory a week, fall quarter. Fee for materials, $2.00.* Professor Davis.

65. STAGE LIGHTING (5).

Elementary theory and practice in stage lighting, including the choice of equipment and its control in the theatre. *Two hours lecture and six hours laboratory work a week, winter quarter. Fee for materials, $2.00.* Professor Davis.

66. STAGE DESIGN (5).

The history of, and elementary theory and practice in, the designing of scenery for the stage, through the preliminary sketch, the model, and the working drawings. A considerable amount of simple architectural drafting will be required. *Two hours lecture and six hours laboratory work a week, spring quarter. Fee for materials, $2.00.* Professors Selden, Davis, and Professor Smith (of the Department of Art).

67. COSTUMING (5).

The designing and making of stage costumes with some consideration of make-up. *Two hours lecture and six hours laboratory work a week, winter quarter. Fee for materials, $2.00.* Mrs. Davis.

Courses for Graduates and Advanced Undergraduates

149. AMERICAN DRAMA, 1890-1930 (5).

A brief survey of the nineteenth century English and American drama, and a study of the development of the American drama in the twentieth century through representative plays. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Koch; Mr. Wynn.

The following three courses in playwriting (155, 156, 157) should be taken consecutively. If it is not practicable to do this, however, the student may, with the consent of the instructor, take any one of the three courses offered. Under exceptional circumstances a student may repeat one or more of the courses for credit. Special permission is necessary for this privilege.

155. PLAYWRITING AND EXPERIMENTAL PRODUCTION (5).

A practical course in playwriting and experimental production. In all three of the playwriting courses emphasis is placed on the native tradition and present-day life of the region with which the student is most familiar. The student is expected to direct experimental productions of plays written in the course. The best of these are given public production by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, fall quarter. Fee for experimental production, $3.00.* Professors Koch, Selden.

156. PLAYWRITING AND EXPERIMENTAL PRODUCTION (5).

The principles of dramatic construction and practice in the writing and production of one-act plays. Experimental and public productions. *Four hours lecture and two hours practical work a week, winter quarter. Fee for experimental production, $3.00.* Professors Koch, Selden.

157. PLAYWRITING AND EXPERIMENTAL PRODUCTION (5).

Practice in writing one-act and full-length plays with experimental and public productions by The Carolina Playmakers. *Four hours lecture and two hours practical work a week, spring quarter. Fee for experimental production, $3.00.* Professors Koch, Selden.

160. HISTORY OF THE THEATRE (5).

A course designed to give the student a view of the institution of the theatre in its beginnings and development. The emphasis is on those features of the theatre which are not dealt with in the more literary courses—the changing forms of the theatre building, scenery, lighting, the audience, the actor, the relation of the theatre to social conditions, and the place of the theatre in the history of civilization. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Koch; Mr. Wynn.

161. COMPARATIVE DRAMA (5).

A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays (in translation) of the leading European dramatists. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Koch; Mr. Wynn.

162. MODERN DRAMA (5).

A study of representative plays of the modern period, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Koch; Mr. Wynn.

193. MATERIALS AND METHODS OF TEACHING DRAMATICS IN HIGH SCHOOLS (5). Prerequisite, courses to be determined by the instructor.

This course includes consideration of the teaching of oral English, the correction of speech faults, the teaching of dramatic literature and playwriting, the selection and production of plays, and the direction of dramatic clubs in secondary schools. Teachers of the State elective in drama are required to teach written as well as oral English set down for Education 181. (This course is identical with Education 193.) *Five hours a week, winter quarter.* Professor Farrar of the Department of Education.

Courses for Graduates

201. PLAY DIRECTING, ADVANCED (5). Prerequisite, Dramatic Art 61 or 62, and 63, or equivalent training in acting and directing.

Theory and practice in the training of actors and in directing. Actual experience in the directing of experimental productions of new plays. *Five hours a week, spring quarter. Fee for materials, $3.00.* Professor Selden.

202. STAGING METHODS (5). Prerequisite, Dramatic Art 64, 65, 66 and a course in freehand drawing and painting, or equivalent training in designing and technical practice.

Individual instruction in the designing and planning of stage scenery and lighting and in theatre engineering. *Five hours a week, winter quarter. Fee for materials, $2.00.* Professor Selden.

203. TECHNICAL PROBLEMS IN PLAYWRITING (5). Prerequisite, Dramatic Art 155 or 156 or 157.

An advanced course in the principles of writing the full-length play. A study of the organization of materials, the development of the scenario, and the preparation of the completed script. *Five hours a week, winter quarter.* Professors Koch, Green.

204. PHILOSOPHICAL IDEAS IN DRAMATIC LITERATURE (5).

A study of dramatic literature as interpreted from the point of view of the social, political, and philosophical theories. *Five hours a week, winter quarter.* Professor Green.

325. SEMINAR IN DRAMATIC ART (5).

Research in dramatic literature, theatrical history, and staging methods. Required of all candidates for the A.M. degree with a major in Dramatic Art. *Five hours a week, fall quarter.* Professors Koch, Sharpe, Selden.

*DEPARTMENT OF ECONOMICS AND COMMERCE

Professors: D. D. Carroll, E. E. Peacock, **E. W. Zimmermann, R. J. M. Hobbs, J. B. Woosley, C. P. Spruill, G. T. Schwenning, †Clarence Heer, H. D. Wolf, D. H. Buchanan, ††E. M. Bernstein, M. S. Heath, M. D. Taylor.
Acting Professor: W. A. Kilpatrick.
Associate Professors: J. M. Lear, J. G. Evans, R. H. Sherrill, D. J. Cowden, R. S. Winslow.
Assistant Professor: A. T. Bonnell.
Lecturers: Adolf Drucker, Franz Gutmann, Ervin Hexner.
Instructors: J. C. D. Blaine, R. W. Crutchfield, C. H. Donovan, A. C. Griffin, D. F. Martin, Fred Meyers, O. T. Mouzon, J. M. Waller.
Teaching Fellows: L. B. Arrington, W. H. Joubert.
Research Associate: Hans Haas.
Assistants: C. C. Ballard, Gerald Brown, J. S. Currie, Elizabeth W. Donovan, Edna Douglas, J. W. Gunter, L. T. Hawley, J. S. Henderson, R. F. Hutchinson, C. E. McIntosh, Jr., R. L. Stallings.

*ECONOMICS

Courses for Undergraduates

21-22-23. GENERAL ECONOMICS (9). Not open to Freshmen.

This course is planned to give a general understanding of the organization of our economic life and the fundamental principles underlying it. An analysis is made of production, distribution, and consumption, of the elements which determine value and price, with a brief introduction to money, banking and credit, monopoly, business combinations, labor problems, and economic reform. Sophomore elective. *Three hours a week, fall, winter, and spring quarters.* Professor Cowden, Messrs. Donovan, Joubert, Martin, Meyers.

31-32. GENERAL ECONOMICS (10). Not open to Freshmen.

The content of this course is the same as that of Economics 21-22-23 but it is given as a double course in two quarters. Sophomore elective. *Five hours a week, fall, winter; winter, spring; and spring, fall quarters.* Professors Wolf, Lear, Heath, Winslow, Kilpatrick, Bonnell, Buchanan; Messrs. Arrington, Donovan.

41. RESOURCES AND INDUSTRIES (5).

This course occupies a middle ground between geography and economics. Important data of human economic geography are appraised as to their meaning to the economist. The emphasis in resource analysis, therefore, is on the supply and demand conditions which have a measurable effect on price behavior. The close relationship between geographical facts and institutional developments is taken into consideration. The approach is functional rather than descriptive. Attention is focused on wide vistas and deep perspectives rather than on details of technology. In general, an effort is made to place the discussion on a broad basis of human values and world relationships. *Five hours a week, every quarter. Fee for materials, $1.00.* Professor Zimmermann; Messrs. Mouzon, Brown.

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* For an A.B. degree with a major in Economics, a student must complete Economics 21-22-23 or its equivalent in the General College and six courses, including the following: Economics 81-82, 131, and either Economics 191 or 195. The other two courses may be selected from any offerings of the department other than Economics 135 or 137. The student will also be required to select five to seven courses from related departments in the Devision of the Social Sciences and five to seven courses from the Divisions of the Natural Sciences and the Humanities.

** Absent on leave, fall and winter quarters, 1939-1940.

† Absent on leave, 1939-1940.

†† Absent on leave on the Kenan Foundation, spring quarter, 1940.

61. PRINCIPLES OF ECONOMICS (6). Not open to Freshmen or Sophomores and does not serve as prerequisite to advanced courses.

This course is planned for students in the Upper Divisions, other than those whose major is economics, who desire an elective in the principles of economics. The field covered is the same as in Economics 31-32 but at a more advanced level and in a more critical way. *Six hours a week, every quarter.* Professor Evans.

81. PRINCIPLES OF MONEY AND BANKING (5). Prerequisite, Economics 21-22-23 or equivalent.

A general study of the principles, functions, and forms of money and credit, the theory of the value of money, and the more important problems of money and credit. The significance of money and credit in the behavior of the economic system is brought out by a study of banking institutions, the operations of commercial banks, and the Federal Reserve System. *Five hours a week, every quarter.* Professors Woosley, Bernstein, Gutmann.

Courses for Graduates and Advanced Undergraduates

121. RISK AND RISK-BEARING (5). Prerequisite, Economics 21-22-23 or equivalent.

A study of the risk element in modern industry together with the measures which have been devised to meet it. This course should precede the study of insurance. *Five hours a week, fall quarter.* Professor Lear.

124. PRINCIPLES OF MARKETING (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical study of marketing organization and operation. Among the topics discussed are: methods of approach to the study of marketing; the marketing of farm products, the marketing functions; trade channels; direct marketing; the services performed by brokers, sales agents, auctions, wholesalers, and different types of retailers; commodity exchanges and future trading; price policies; price maintenance; brand policies; market research; problems relating to marketing costs; and scientific marketing management. Emphasis is placed on recent developments in retailing, such as the growth in economic importance of centrally owned chain store organizations, cooperative chains, and consumers' cooperative stores. In the study of the marketing of farm products special attention is given to cooperative marketing, and the work of the Agricultural Adjustment Administration and the Farm Credit Administration is examined critically. Study is made likewise of other governmental bureaus which influence marketing. *Five hours a week, fall quarter.* Professor Taylor.

131. ECONOMIC THEORY (5). Prerequisite, Economics 21-22-23 or equivalent.

The primary purpose of this course is the development of greater facility upon the part of the student in the use of economic theory as a tool in the analysis of economic and business problems. The assumptions and limitations of economic theory are analyzed. Specific problems are employed to test the utility of theory as a framework of thought for their solution. Required of all seniors in the School of Commerce and of all seniors whose major is Economics. *Five hours a week, every quarter.* Professor Spruill.

135. ECONOMIC HISTORY (5).

A study of the development of the modern economic system, especially in Europe and America. Emphasis is placed upon the growth of the leading economic institutions, such as the factory system, or the banking system, together with the interrelations among these institutions and between them and the general political and cultural movements. *Five hours a week, every quarter.* Professor Buchanan.

137. ECONOMIC DEVELOPMENTS IN THE ORIENT SINCE 1800 (5).

A study of the foundations of economic life and of modern economic developments in Japan, China, and India. Special attention is given to the rise of modern industry, commerce, and finance, and to the effect of these upon the indigenous cultures and upon international relations. *Five hours a week, spring quarter.* Professor Buchanan.

141. PUBLIC FINANCE (5). Prerequisite, Economics 21-22-23 or equivalent.

A general study of government business covering the principles involved in public revenues and expenditures—local, state, and national; a treatment of the just distribution of public charges and their incidence; and a study of the growth and organization of modern tax systems. *Five hours a week, fall quarter.* Professor Kilpatrick.

142. PROBLEMS IN FEDERAL FINANCE (5). Prerequisite, Economics 141.

An advanced critical study of the problems of American national finance with particular reference to federal taxes and federal tax procedure. *Five hours a week, winter quarter.* Professor Kilpatrick.

143. PROBLEMS IN STATE AND LOCAL FINANCE (5). Prerequisite, Economics 141.

Selected problems relating to the financing of state and local functions. *Five hours a week, spring quarter.* Professor Kilpatrick.

151. TRANSPORTATION (5). Prerequisite, Economics 21-22-23 or equivalent.

The first part of this course is designed to acquaint the student with the structure and the functions of transportation in modern industrial society. The prices of transportation services are analyzed with regard to both the supply of the services and the location of other economic enterprises. The second part of the course presents the evolution of public policy, the growth of state and federal regulation; and considers the important transportation problems which confront our regulatory commissions and other public representative bodies today. *Five hours a week, fall quarter.* Professor Heath.

153. PUBLIC UTILITIES (5). Prerequisite, Economics 21-22-23 or equivalent.

The first part of the course is historical and descriptive, covering the physical and technical development and the corporate and financial set-up of public service corporations other than railroads, including electric light and power companies, telegraph companies, street railways, motor vehicle carriers, and similar utilities. The second part of the course deals with methods of protecting the public interest in utility services. Among the topics considered are: the legal bases of utility regulation, state and federal regulatory agencies, valuation and rate of return, principles of rate making, capitalization, and security regulation, the problem of the holding company, and public ownership. *Five hours a week, spring quarter.* Professor Heer.

161. THEORY OF INTERNATIONAL TRADE (5). Prerequisite, Economics 21-22-23 or equivalent.

In this course international trade is viewed from the standpoint of the political economist, emphasizing the social aspects. After an historical study of the past and a critical analysis of the present foreign commerce of the United States and principal competitors, an effort is made to apply to a survey of our foreign markets and of our foreign sources of supply the general principles of economic theory in so far as they pertain to international trade. Following this the payment balances of this country and of other leading countries engaged in world commerce are critically studied. Finally, the most important theories of international trade are reviewed in the light of historical development. *Five hours a week, fall quarter.* Professor Zimmermann.

165. COMMERCIAL POLICY OF MODERN NATIONS (5). Prerequisite, Economics 161.

After a general survey of international commercial policy up to the close of the Napoleonic Wars, a more detailed comparative study of the commercial policy of the leading nations during the last hundred years is made. The following countries are included: United States, Great Britain, France, Germany, Russia, Italy, Canada, Argentina, and India. Special attention is given to tariff problems, colonial policies, and to imperialism. The present world resources situation and its probable effect on future commercial policy is appraised. *Five hours a week, winter quarter.* Professor Drucker.

170. ECONOMIC STATISTICS (6). Prerequisite, Mathematics 1-2-3, Economics 21-22-23 or equivalent.

This course is designed to give an understanding of statistical technique used by economists and business men. Among the topics included are: collection of data, tabular and graphic presentation, averages, reliability, theory, index numbers, time series analysis, and simple correlation. Emphasis is put on the meaning and limitations of statistical methods rather than on techniques of computation and mathematical proofs. The laboratory work is designed to give practice in the use of the processes studied, together with an interpretation of the results found. *Four lecture and four laboratory hours a week, every quarter. Laboratory fee, $3.00.* Professor Cowden.

171. ADVANCED ECONOMIC STATISTICS I (5). Prerequisite, Economics 170 or equivalent.

This course is designed to give the student the ability to use some of the more exact and more technical tools, such as fitting of the normal curve, curvilinear trends for time series, changing the seasonal variation, and multiple correlation. Sampling theory is further considered. The course also seeks to give acquaintance with practical work and current literature in statistics. *Four lecture hours and outside assignments a week, winter quarter. Laboratory fee, $2.00.* Professor Cowden.

172. ADVANCED ECONOMIC STATISTICS II (5). Prerequisite, Economics 21-22-23, Economics 170 and 171, or equivalent.

The object of this course is threefold: (1) to give training in advanced or specialized techniques; (2) to study the application of statistical techniques to economic analysis; (3) to supply the special statistical needs of individual students, Techniques studied include the fitting of skewed frequency distributions, the fitting of growth curve to time series, curvilinear multiple correlation, both mathematical and graphical, analysis of variance, and an introduction to factor analysis. Economic subjects quantitatively considered include demand curves, diminishing returns, price change, and business cycles. *Four lecture hours and outside assignments a week, spring quarter. Laboratory fee, $2.00.* Professor Cowden.

185. BUSINESS CYCLES (5). Prerequisite, Economics 21-22-23 or equivalent, and 81.

A study of the alternating periods of depression and prosperity. The underlying causes of panics and crises. Fluctuation in prices, trade volume, and physical production. *Five hours a week, winter or spring quarter.* Professors Bernstein, Gutmann.

191. AN INTRODUCTION TO THE LABOR PROBLEM (5). Prerequisite, Economics 21-22-23 or equivalent.

To the extent that the competitive wage system fails (a) to provide for the laborer an adequate basis for a decent living and (b) to draw from him the services he ought to render to industry, there appears to be a "labor problem." The purpose of this course is to make an analytic survey of the modern labor problem in its major aspects, such as unemployment, low wages, industrial accidents and diseases, overstrain, and superannuation, and the status of the worker in industrial society. Trade unionism and the labor movement and intervention by the State in behalf of the worker, and social methods of coping with the problems of labor are also surveyed. *Five hours a week, every quarter.* Professor Wolf.

192. ORGANIZED LABOR AND COLLECTIVE BARGAINING (5). Prerequisite, Economics 191.

This course is designed to acquaint the student with the development of labor and employers' organizations; the structure, government, policies, and program of labor and employers' organizations; the procedure of collective bargaining and the content of the collective bargaining agreement; the law as it applies to the activities of organized labor and employers; and methods and machinery for the promotion of industrial peace. In so far as possible these topics will be considered in terms of the Southern labor situation. *Five hours a week, winter quarter.* Professor Wolf.

195. THEORIES OF ECONOMIC REFORM (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical analysis of the leading proposals for reform in the present economic system, including Socialism, Bolshevism, Single Tax, and Social Insurance. *Five hours a week, every quarter.* Professor Carroll.

197. GOVERNMENT AND BUSINESS (5). Prerequisite, Economics 21-22-23 or equivalent.

This course deals with the control exercised by government over business operations. Emphasis is placed on legal control. Attention in some detail is given to trade regulations, public utilities, and the operation of the federal anti-trust laws. The course includes a study of the control of business by the states under their police powers and by the federal government under the interstate commerce and taxing provisions of the federal constitution. Governmental participation in business is treated to a limited extent as is the attitude of government toward labor. The emergency legislation of 1933 and the extensive governmental activities thereunder are studied. *Five hours a week, spring quarter*. Professor Hobbs, Mr. Waller.

Courses for Graduates

211. ADVANCED COMMODITY ECONOMICS (5). Prerequisite, Economics 41, 21-22-23, or equivalent.

The demand and supply conditions of selected commodities representing certain types are studied. The institutional factors affecting these conditions are critically examined with special reference to price behavior. *Five hours a week, winter quarter*. Professor Zimmermann.

224. THE ECONOMICS OF MARKETING (5). Prerequisite, Economics 124 or equivalent.

This course will develop the economic principles underlying marketing and show the inter-relations of the various marketing activities. Selected topics, such as the following, will be discussed critically: the government and marketing, the economics of chain store distribution, agricultural cooperation, the retailer and consumer cooperative movement, marketing research studies, scientific marketing management, resale price maintenance, the costs of distribution and waste and inefficiency in marketing. The topics considered will vary from year to year depending on the interest of the class. *Five hours a week, spring quarter*. Professor Taylor.

235. ECONOMIC DEVELOPMENTS IN THE OCCIDENT BEFORE 1750 (5).

A study of the economic aspects of European life with special emphasis upon the manorial system and its decline, the guild system, the putting out system, the growth of money and credit economy, the Commercial Revolution, and the early stages of the Industrial Revolution. (Alternates with Economics 236; will be given in 1940-1941.) *Five hours a week, fall quarter*. Professor Buchanan.

236. ECONOMIC DEVELOPMENTS IN THE OCCIDENT SINCE 1750 (5).

A study of the growth of modern economy in the Western world. Special emphasis is placed upon the spread of the factory system and the changes which have accompanied it in agriculture, transportation, money and banking, trade, and the condition of the laboring class. (Alternates with Economics 235; will be given in 1941-1942.) *Five hours a week, fall quarter*. Professor Buchanan.

241. HISTORY OF FISCAL DOCTRINES (5). Prerequisite, Economics 141.

Theories of distributive justice and taxation; the incidence and economic effects of taxation; and the use of taxation as an instrument of social control. A review of the ideas of representative writers from the eighteenth century to the present time. *Five hours a week, spring quarter*. Professor Heer.

244. INDUSTRIAL COMBINATIONS (5). Prerequisite, Economics 21-22-23 or equivalent.

An analysis of the several types of vertical and horizontal combinations in industry with special attention to their production and pricing policies and their economic significance. The legal position of combinations in Europe and America will be examined and public policy with respect to them will be appraised. International combinations as politico-economic institutions will be critically surveyed. *Five hours a week, winter quarter.* Professor Hexner.

251-252-253. ADVANCED ECONOMIC THEORY (15). Prerequisite, Economics 21-22-23 or equivalent.

A survey of economic theory from the standpoint of the evolution of modern industrial society. The three courses will not only include a review of the works of the leading economic writers, but will also summarize the principal physical, psychic, and social factors which have shaped economic theory and economic institutions. *Five hours a week, fall, winter, and spring quarters.* Professor Heath.

281. MONEY, PRICES, AND FOREIGN EXCHANGE (5). Prerequisite, Economics 81-82 or equivalent.

A critical consideration of the various monetary standards, the theories of the value of money, the inter-relationships of exchange rates and prices, recent monetary policies, and proposals for monetary reform. Emphasis is given to monetary history and contemporary experience in considering the validity of monetary theory. *Five hours a week, fall quarter.* Professors Bernstein, Gutmann.

282. COMMERCIAL AND CENTRAL BANKING (5). Prerequisite, Economics 81-82 or equivalent.

A study of the structure, functions, and operations of commercial and central banks with special reference to the Federal Reserve System. The policies of central banks as they relate to the volume of physical production, the national income, and the price level are critically examined. The theories on which these policies are predicated are analyzed. *Five hours a week, winter quarter.* Professor Woosley.

291. LABOR ECONOMICS (5). Prerequisite, Economics 191 or equivalent.

An intensive and critical analysis of certain phases of labor problems, among them: current wage theory; the position of the laborer in modern society; wage differentials; the effects of machinery on wages, hours, and work opportunities; the problem of unemployment; the economics of collective bargaining. *Five hours a week, spring quarter.* Professor Wolf.

295. CASE STUDIES IN ECONOMIC REFORM (5). Prerequisite, Economics. 31-32 or equivalent, 195 or equivalent.

This course is devoted to a critical study of selected programs of Economic Reform currently in operation in various parts of the world, e.g., Fascism, Consumer Cooperation, the New Deal, the Soviet System, the Swedish System. Assignments will be made in harmony with the interests of the individual members of the class. *Five hours a week, winter quarter or Summer Session.* Professor Carroll.

301abc. SEMINAR IN ECONOMICS (with thesis 5). Prerequisite, Economics 21-22-23 or equivalent, and 81-82.

A general introduction to methods of advanced study. Some phase of economic activity in harmony with the interests of the members of the seminar is selected for consideration. Methods of work and content receive equal emphasis. *Two hours a week, fall, winter, and spring quarters.* Professor Heath (Chairman).

324. SEMINAR IN MARKETING (5).

This course is available for graduate students who wish to make an intensive study of special topics in marketing or to do original research work. Individual conferences are arranged with the instructor. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Taylor.

341. RESEARCH COURSE IN PUBLIC FINANCE (5).

The changing form and distribution of wealth and income together with the expanding conceptions of governmental services make imperative a constant reexamination of fiscal problems. The scope of operations and the magnitude of revenues and expenditures emphasize the importance of administrative efficiency. Critical studies in this field are carried on under the supervision of the professor in charge. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Heer.

NOTE: Registration for this course must be approved by the professor in charge.

351. ECONOMIC HISTORY AND THEORY (5).

This course is a seminar dealing with the relations between economic history and economic theory. Theories of economic history are analyzed with the purpose of appraising their utility in the realm of general theoretical analysis. Currently used thought tools, or so-called theories, are tested as to their usefulness in the light of historical trends. So far as the materials to be studied are concerned, about equal emphasis will be placed upon historical data and contemporary thought. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Heath.

361. INTERNATIONAL ECONOMIC RELATIONS (5).

An increasing share of the economic life of mankind is being lifted out of the sphere of local and national activities, and is being subjected to world-wide influences. This tendency affects not only those business interests of ours directly engaged in foreign trade, but in general reacts upon our political position as a world-power, and materially influences our domestic and economic life.

The aim of this course is to provide graduate students interested in world economics the opportunity of pursuing advanced research along such lines as these: the movement of world prices; international commodity price control; the world food problem; the population question; advancing industrialization and future supply of raw materials; problems of international law affecting economic activities; foreign investments; commercial treaties; colonial policy, etc. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Zimmermann.

NOTE: Registration for this course must be approved by the professor in charge.

371. RESEARCH IN ECONOMIC STATISTICS (5).

This course is designed to allow individual study and research by qualified graduate students in specialized fields of economic statistics, such as business cycle statistical analysis, economic forecasting, price index number problems, regional business indices, commodity demand studies, or the statistical work of business establishments. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Cowden.

NOTE: Registration for this course must be approved by the professor in charge.

382. SEMINAR IN PRIVATE FINANCE (5).

The scope of this course will depend on the interests and preparation of the student, but an opportunity will be given for a more advanced study of commercial banking, central banking policies, and the forces operating in the money and capital markets. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Woosley.

NOTE: Registration for this course must be approved by the professor in charge.

385. ECONOMIC DYNAMICS (5).

This course focuses upon the changing nature of the modern economic organization. An effort is made to identify the more important of the dynamic elements, and to evaluate the significance of each in the general process of change. Attention is given to the readjustment processes and problems of particular industries, as well as to general trade, finance, and social well-being. Topics covered would include consumption behavior, income distribution, capital accumulation, money and credit conditions, new developments in marketing, production, transportation. The method of study will be inductive. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Bernstein.

NOTE: Registration for this course must be approved by the professor in charge.

391. HUMAN RELATIONS IN INDUSTRY (5).

This course is a seminar in selected topics in labor economics and aims to provide a limited number of graduate students an opportunity of doing critical and constructive work in this field. In view of the fact that there are grave problems connected with the adjustment of the workers to the new industrial and social order that is being developed in the South Atlantic States, a part of the time is usually devoted to this topic. *Equivalent of five hours a week, fall or winter or spring quarter.* Professor Wolf.

NOTE: Registration for this course must be approved by the professor in charge.

399. SEMINAR (5).

Individual research in a special field under direction of a member of the department.

COMMERCE

(Courses in Commerce count for credit toward the degree S.B. in Commerce only.)

Courses for Undergraduates

51. BUSINESS ORGANIZATION (5). Prerequisite, Economics 21-22-23 or equivalent.

The forms of business organization with emphasis on the corporation. The external relations of a business organization and the internal coordination of the factors in production with a view to the establishment of effective control and definite responsibility for results. Special attention will be directed to the various functions to be performed, such as production, finance, personnel, marketing, risk-taking, and records and standards. *Five hours a week, every quarter.* Professor Schwenning; Messrs. Blaine, Donovan.

61. SALES MANAGEMENT (5). Prerequisite or corequisite, Economics 21-22-23 or equivalent.

This course presents important problems of sales planning and administration from the point of view of the executive in charge of marketing. Among the general topics considered are: the relation of the sales department to other departments of the business; types of sales organizations; the selection, training, compensation, and management of the sales force; distribution policies, including the choice of channels and agencies; sales research and market analysis; the determination of price and brand policies; the statistical control of sales operations; and the costs of distribution. Methods of preparing sales budgets are emphasized and budgets used by representative companies are examined. The distributive organization of several companies is studied critically. In the latter part of the course the problem method of instruction is used. *Five hours a week, winter quarter. Laboratory fee, $1.00.* Professor Taylor.

66. GENERAL PSYCHOLOGY FOR STUDENTS OF COMMERCE (5). For students in the School of Commerce; not open to others.

A course in general psychology for students in the School of Commerce. Emphasis placed upon the psychological aspects of social phenomena. *Five hours a week every quarter. Fee for materials, $1.00.* Mr. MacPhee.

71. ACCOUNTING PRINCIPLES I (6). Prerequisite or corequisite, Economics 21-22-23 or equivalent, Commerce 51.

Lectures with laboratory work. Study of the theory of debit and credit, record making, organization of accounts, and presentation of financial and profit and loss statements. Laboratory exercises in accounting problems and technique. *Four lecture and four laboratory hours a week, every quarter. Laboratory fee, $3.00.* Professors Peacock, Sherrill; Messrs. Ballard, Crutchfield, Hawley, Stallings.

72. ACCOUNTING PRINCIPLES II (6). Prerequisite, Commerce 71.

Lectures with laboratory work. An approach to accounting problems from the business manager's point of view. It consists of a thorough study of the organization of the accounting department of a business and its relation to the other departments, accounting systems, construction and analysis of accounting statements. The principles of valuation of assets, depreciation, and bonds are also covered. *Four lecture and four laboratory hours a week, every quarter. Laboratory fee, $3.00.* Professors Peacock, Sherrill; Messrs. Ballard, Crutchfield, Hawley, Stallings.

91-92. BUSINESS LAW (10). Prerequisite, Economics 21-22-23 or equivalent.

The aim of the course is to give the student an understanding of the main principles of law which govern in the daily conduct of business. The topics discussed are: contracts, agencies, negotiable instruments, sales, bailments, corporations, partnerships, and bankruptcy. *Five hours a week, fall and winter quarters.* Professor Hobbs; Mr. Waller.

Courses for Graduates and Advanced Undergraduates

121. INSURANCE: LIFE (5). Prerequisite, Economics 21-22-23 or equivalent.

A study of the principles and technique of life insurance, including disability, accident, and group insurance. Some attention will also be given to the investment operations of insurance companies. *Five hours a week, winter quarter.* Professor Lear.

122. INSURANCE: FIRE, MARINE, BOND, AND TITLE (5). Prerequisite, Economics 21-22-23 or equivalent.

In this course, an effort is made to consider as far as possible the wide range which the insurance function covers and the probable trend of its future development. The topics noted in the title of the course are studied and as many others as time will permit. *Five hours a week, spring quarter.* Professor Lear.

151. PRINCIPLES OF INDUSTRIAL MANAGEMENT (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.

This course covers the problems involved in the construction, equipment, and administration of a manufacturing enterprise. The unit of study is the factory. The subject matter is treated under four heads: the underlying principles of production, the agencies of production, the control of production operations, and the establishment of production standards. *Five hours a week, fall quarter.* Professor Schwenning.

154. PRODUCTION MANAGEMENT: THEORIES AND PRACTICES (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.

Current theories of organization and management will be taken up and subjected to careful scientific analysis. Practices will be compared with theories. An attempt will be made to formulate the underlying principles upon which the administration of modern industrial enterprise rests. *Five hours a week, winter quarter.* Professor ....

155. PERSONNEL MANAGEMENT (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.

A scientific study of the methods of hiring and handling personnel in the various lines of industry. The supply, selection, training, promotion, transfer, and discharge of employees; the computation and significance of labor turnover; housing, educational, and recreational facilities; the functions of a personnel department with reference to efficiency, and the maintenance of good will between employees and employers. *Five hours a week, winter quarter.* Professor Schwenning.

156. PERSONNEL PROBLEMS (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51.

This is an advanced course designed to accomplish the following objectives: (1) to indicate the increasing importance of personnel work in industry and business due to current economic conditions, labor legislation, and labor organization; (2) to concentrate attention on certain leading problems of the personnel department; and (3) to provide students an opportunity to do intensive work on selected personnel problems. Among the topics selected for thorough investigation are these: the place and importance of the personnel department, establishment of personnel policies, coordination of personnel activities, the problem of morale, the problem of fatigue, control of production standards, job analysis and job classification, the place of foremen in personnel work, wages and wage payment systems, and joint relations under the National Labor Relations Act. *Five hours a week, spring quarter.* Professor Schwenning.

157. TIME AND MOTION STUDY (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51, 151. Open only to seniors and graduate students.

A presentation of the elements of time and motion study as a phase of scientific management and as a device used by modern industrial establishments to measure the productive capacity of workers on specific jobs and to set production standards. The course will include a discussion of the following: fundamentals and development of time and motion study; equipment and qualifications of a time study man; collection and tabulation of data; organization of the time study department, etc. Students will be given practice in making time studies and in applying the results. *Five hours a week, spring quarter.* Professor ....

158. MANAGEMENT PROBLEMS (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51 and 151.

This course is designed to give advanced students an opportunity to do intensive work on selected problems in the field of production management. *Five hours a week, winter quarter.* Professor Schwenning.

161. ADVERTISING (5). Prerequisite, Economics 21-22-23 or equivalent.

A study of the economics of advertising, the place and function of advertising in business, and the psychological principles applicable to the preparation of advertisements. The chief problems of advertising are discussed from the viewpoint of the executive in charge of marketing who must continually give consideration to what can reasonably be expected from advertising as part of a complete distribution program. Emphasis throughout the course is placed on the ethical aspects of advertising and on the use of research methods in the effective planning and preparation of advertising campaigns. Several outstanding campaigns are studied in detail. Considerable practice is given students in the planning and preparation of advertisements. *Five hours a week, fall or spring quarter. Laboratory fee, $1.00.* Professor Taylor.

163. ADVANCED COURSE IN MARKETING (5). Prerequisite, Economics 124 or Commerce 61 or 161.

This course is for students who wish to do advanced work in the field of marketing. The particular problems considered vary from year to year depending on the interests of the class. The seminar method is used. *Five hours a week, spring quarter.* Professor Taylor.

165. RETAIL DISTRIBUTION (5). Prerequisite, Economics 21-22-23 or equivalent.

A critical study is made of the general policies and practices of retail institutions such as unit stores, department stores, specialty stores, chain stores, voluntary chains, and mail order houses; and an attempt is made to develop the principles of retail distribution. Among the general topics considered are: elements of retail profit, types of retail institutions and types of merchandise, store location, store layout and merchandise classification, sales and service policies, merchandising, pricing policies, brand policies, relations with merchandise sources, and organization. Problems and cases form an important part of this course. *Five hours a week, winter quarter.* Professor Taylor.

169. FOREIGN TRADE PRACTICE (5). Prerequisite, or corequisite, Economics 124.

This course treats of foreign trade as a business profession, developing both its functional and structural aspects. Attention is given to both exporting and importing as well as ocean shipping and marine insurance. *Five hours a week, spring quarter.* Professor Zimmermann.

171. ADVANCED ACCOUNTING (5). Prerequisite, Commerce 71-72.

Lectures with laboratory work. Study of accounting problems and forms for special types of business concerns. Accounting for the organization and liquidation of co-partnerships and corporations, for combinations and consolidations, for trustees and receiverships, branch houses, municipalities, and foreign exchange. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Peacock.

172. ACCOUNTING SYSTEMS (6). Prerequisite, Commerce 71 and prerequisite or corequisite, Commerce 72.

A laboratory course. Bookkeeping systems and records for the various industries prevalent in North Carolina are studied and practice sets for each are prepared. A tentative list will include tobacco manufacturing, furniture manufacturing, cotton goods manufacturing, automobile sale agencies and garages, banks in small cities, and municipalities. *Six hours a week, spring quarter. Laboratory fee, $2.00.* Professor Peacock.

173. COST ACCOUNTING (5). Prerequisite, Commerce 71-72.

Lectures with laboratory work. Methods for collection of data relative to prime costs and a careful analysis of various methods of burden distribution. Application of principles will be made in the laboratory by means of budgets for cost accounting in different classes of enterprise. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professor Peacock.

175. AUDITING (5). Prerequisite, Commerce 71-72.

Lectures and problems. Kinds of audits, systems of accounts, methods of conducting audits, and problems in auditing. *Five hours a week, fall quarter. Laboratory fee, $2.00.* Professor Peacock.

177. INCOME TAX PROCEDURE (5). Prerequisite, Commerce 71-72.

This course consists of a thorough study of both the Federal and State income tax laws and the problems that arise in the making of the various returns. The preparation of the tax returns and claims for refund will be undertaken as laboratory exercises. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professor Sherrill.

178. C. P. A. PROBLEMS (3). Prerequisite, Commerce 71-72.

This course deals with the questions and problems given by the different states and the American Institute in their C. P. A. examinations. Typical problems are solved, and solutions prepared by the leading accountants of the country are studied. (This course will be given only in case as many as five students register for it.) *Three hours a week, spring quarter.* Professor Peacock.

179. GOVERNMENTAL ACCOUNTING (5). Prerequisite, Commerce 71-72.

Lectures and laboratory work. A study of budgeting accounting and its application to the various governmental units; the differences between fund accounting and commercial accounting; methods of collecting data recorded in books of original entry; and the preparation of financial statements. A survey will be made of systems for educational institutions, and for state, county, and city governments. Laboratory work will consist of practical problems. Field trips will be taken in order to study the system used by the State of North Carolina, the system prepared by the County Government Advisory Commission for counties, and other available systems. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Sherrill.

181. ADVANCED BANKING AND FOREIGN EXCHANGE (5). Prerequisite, Economics 81-82.

A study of the operation and administration of the commercial banking system. Comparisons with the banking systems of other countries will be made. Federal Reserve policies, and the theories underlying them, will be examined. Attention will also be directed to international banking operations and the forces determining the rates of foreign exchange. *Five hours a week, spring quarter.* Professor Woosley.

191. CORPORATION FINANCE (5). Prerequisite, Economics 21-22-23, Commerce 51 and 71.

A study of the principles and practice of corporate financing. Among the topics considered are: the methods of raising permanent capital, problems of current financing, the treatment of earnings, and financial problems incident to expansion and reorganization. Specific problems and reports are employed to illustrate and emphasize the principles involved. *Five hours a week, fall or winter quarter.* Professor Woosley.

192. CORPORATE FINANCIAL POLICIES (5). Prerequisite, Economics 21-22-23 or equivalent, Commerce 51, 71, and 191.

A more extended study of financial policies with special reference to problems of expansion, consolidation, and reorganization. *Five hours a week, winter quarter.* Professor Woosley.

195. INVESTMENTS (5). Prerequisite, Economics 21-22-23, Commerce 71-72, 191.

This course is essentially a laboratory study of corporate securities from the standpoint of the investor. Primary emphasis is placed upon the development of technique and standards of investment analysis. *Five hours a week, spring quarter.* Professor Woosley.

Courses for Graduates

207. THE FUNCTION AND THEORIES OF MANAGEMENT (5). Prerequisite, Commerce 51 or equivalent.

This course analyzes the function of management in contemporary business organization together with the theories involved in the direction of enterprises. Among the topics considered are: the function of management; the management movement; the utilization of the scientific method in management; the laws of organization; scientific management; and the types and theories of management organization. The subject matter will be considered from both functional and social viewpoints. *Five hours a week, winter quarter.* Professor Schwenning.

301abc. SEMINAR IN COMMERCE (with thesis 5).

A general introduction to methods of advanced study. Some phase of business activity in harmony with the interests of the members of the seminar is selected for consideration. Methods of work and content receive about equal emphasis. *Fall, winter, and spring quarters.* Professor Woosley (Chairman).

399. SEMINAR (5 each quarter).

Individual research in a special field under direction of a member of the department.

*DEPARTMENT OF EDUCATION

Professors: **H. R. DOUGLASS, ***M. C. S. NOBLE, E. W. KNIGHT, A. M. JORDAN, G. B. PHILLIPS, O. K. CORNWELL, C. E. PRESTON.
Associate Professors: P. C. FARRAR, H. F. MUNCH, HUGO GIDUZ, J. M. GWYNN, A. K. KING.
Instructors: W. D. PERRY, W. T. GRUHN.
Teaching Fellow: A. J. PARKHURST.
Assistants: D. P. BENNETT, ELIZABETH RUSK, J. R. McDONALD.

In Extension

Professors: W. J. McKEE, R. W. MORRISON.

Courses for Undergraduates

NOTE: For undergraduate courses in Physical Education see the Department of Physical Education.

41. GENERAL INTRODUCTION TO THE STUDY OF EDUCATION (5). Required of all prospective teachers.

This course attempts to aid prospective teachers in obtaining a general understanding of the philosophy and procedures of public education. It introduces the history, traditions, organization, and purposes of public schools. *Five hours a week, fall or winter quarter.* Staff: Professors Douglass, Knight, Phillips, Gruhn.

71. EDUCATIONAL PSYCHOLOGY (5). Required of all graduating from the Division of Teacher Training.

To consider critically such topics as inheritance and its relations to environment, learning and its motivation, individual differences, mental hygiene, and mental measurements is the purpose of this course. Lectures, textbooks, laboratory. *Laboratory fee, $1.00. Four lecture and two laboratory hours a week, winter or spring quarter.* Professor Jordan.

78. DIRECTED TEACHING OF ART (5). Prerequisite, courses to be determined by the instructor.

The purpose of this course is to provide actual practice in teaching art in elementary and high schools under supervision. At the end of each week the student's work will be discussed and criticized in conference with the instructor. *Five hours a week, any quarter, on application.* Professor Smith.

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* All students who plan to follow a teacher-training program should consult the Chairman of the Division of Teacher Training, who is also Head of the Department of Education, for admission to the Division before registering for their junior year. Freshmen and sophomores who know that they wish to teach are advised to consult the Chairman of the Division of Teacher Training as early as possible. It is difficult to meet the State requirements for high school teaching certificates in certain fields unless the student chooses General College courses in the light of these requirements.
For further information concerning preparation for teaching see the section in the catalogue headed "Division of Teacher-Training," pages 116ff.

** Resigned, effective March, 1940.

*** Kenan Professor *Emeritus.*

80. DIRECTED TEACHING OF INSTRUMENTAL MUSIC (5).

The purpose of this course is to provide practice in teaching instrumental music under actual classroom conditions. A period of observation together with a study of the material taught, and preparation of lesson plans, will precede the actual teaching under supervision. *Five hours a week, any quarter, or the course may be spread out over two or three quarters.* Professor Slocum.

81. DIRECTED TEACHING OF VOCAL MUSIC (5).

The purpose of this course is to provide practice in teaching vocal music under actual classroom conditions. A period of observation together with a study of the material taught, and preparation of lesson plans, will precede the actual teaching under supervision. *Five hours a week, any quarter, or the course may be spread out over two or three quarters.* Professor Slocum.

82. DIRECTED TEACHING OF HIGH SCHOOL ENGLISH (5). Prerequisite, courses to be determined by the instructor.

The purpose of this course is to provide actual practice in teaching high school classes in English under supervision. It will be initiated by observation of teaching, study of the material taught, and preparation of lesson plans. *Five hours a week, any quarter, on application.* Professor Farrar.

84. DIRECTED TEACHING OF HIGH SCHOOL FRENCH (5). Prerequisite, courses to be determined by the instructor.

In this course the student carries out as far as possible the plan evolved in Education 183. From participation through a period of observation, the student gradually reaches the active stage of teaching. During the latter half of the term he has sole charge of the class, always of course, under the supervision of the instructor. Daily lesson plans and conferences for the discussion of each day's work. *Five hours a week, any quarter, on application.* Professor Giduz.

86. DIRECTED TEACHING OF THE SOCIAL STUDIES (5). Prerequisite, courses to be determined by the instructor.

In this course the student will at first attend a high school class in history or community civics and observe the methods and techniques of conducting the class. When, in the judgment of the instructor, the student is sufficiently familiar with the correct methods, he will be permitted to conduct the class under the supervision of the instructor. After each class conducted by the student teacher his work will be discussed and criticized in conference with the supervisor. *Five hours a week, any quarter, on application.* Professor King.

88. DIRECTED TEACHING OF HIGH SCHOOL LATIN (5). Prerequisite, courses to be determined by the instructor.

The teaching of Latin in the practice school will be observed closely by students for a time; the work of the classes observed will be fully discussed. After such intense observation work, the students will be required to work out individual lesson plans for the classes observed. When the instructor believes that the students have learned the correct procedures he will provide each of them with a class to teach under his supervision. Critical reports and discussions of the class work of each student teacher will follow. *Five hours a week, any quarter, on application.* Professor Gwynn.

90. DIRECTED TEACHING OF HIGH SCHOOL MATHEMATICS (5). Prerequisite, courses to be determined by the instructor.

This course familiarizes the student with the actual classroom situation. It consists of the following steps: mastery of subject matter to be taught; preparation for teaching by observation, making lesson plans, and conferences with the instructor; actual teaching; and discussion with the instructor of techniques used and results obtained. Teaching by the student is the feature of the course. *Five hours a week, any quarter, on application.* Professor Munch.

92. DIRECTED TEACHING OF HIGH SCHOOL SCIENCE (5). Prerequisite, courses to be determined by the instructor.

The object of this course is to give the student familiarity with the science classroom and laboratory in operation. Entering first as an observer he will gradually be allowed to take over more and more of the work as he is considered qualified to do so. Conferences with the instructor will be an important part of this course. *Five hours a week, any quarter, on application.* Professor Preston.

95. BOOK SELECTION FOR HIGH SCHOOL LIBRARIES (5).

A survey of young people's literature, their reading interests during the high school age and a study of standard classics and contemporary books and the development of criteria for their selection. *Five hours a week, winter quarter.* Professor Meigs (of the School of Library Science).

97. BOOK SELECTION FOR CHILDREN'S LIBRARIES (5).

A critical evaluation of children's books and a study of the appeals which books make to children with varying backgrounds and ability. Includes wide range of reading in fields of the classics for children, modern and traditional fairy tales, poetry and subject matter books with some attention given to story-telling and selection of illustrated editions; practice in oral reports, writing of book notes. *Five hours a week, spring quarter.* Professor Meigs (see above).

99. PRINCIPLES AND METHODS OF SECONDARY EDUCATION (5).

Required of all prospective high school teachers:

(a) Theory and objectives of modern secondary education; types of organization of secondary education; the curriculum as related to aims of secondary education and modern American life; guidance in the secondary school.

(b) Theory and procedures of classroom and extra-curricular activities, classroom management; modern methods of teaching and measuring results of teaching; extra-curricular activities in secondary schools. *Five hours a week, fall or spring quarter.* Staff: Professors Douglass, Gwynn, Preston.

Courses for Graduates and Advanced Undergraduates

(NOTE: The large majority of all graduate courses in education are given in one of the two summer terms every summer.)

NOTE: For advanced courses in Physical Education see the Department of Physical Education.

101ab. BASIC PRINCIPLES AND TECHNIQUES IN EDUCATIONAL ADMINISTRATION (5).

The first half of this course will include the basic principles involved in school administration and is designed particularly for teachers who wish to get a review of the fundamentals of the organization and administration of American public schools, and for students desiring to prepare later for general administrative positions. Attention will be given to the organization, administration, and financial support of public schools in federal, state, and local school districts; work of school boards, retirement and tenure, professional ethics; public relations; and relationships of the teacher in modern educational administration.

The second half of the course will deal with practical techniques in educational administration concerning (1) teacher and pupil personnel problems; (2) school records, and reports; (3) age-grade progress studies; (4) pupil classification and promotion; (5) transportation and consolidation; and (6) general administration of allied school activities. *Two and a half hours a week, fall and winter quarters.* Professor ....

102. ELEMENTARY SCHOOL ORGANIZATION AND ADMINISTRATION (2½).

The qualifications, duties, and opportunities of the elementary school principal as an educational leader will be studied. Particular attention will be given to the practical organization of the staff, administrative organization of the instructional and extra-curricular program, classification and promotion of pupils, provision for atypical children, library service, and health education. It is designed particularly for elementary school principals, teachers, and others desirous of becoming more familiar with the problems of elementary school administration. *Two and a half hours a week, winter quarter.* Professor ....

103ab. ELEMENTS OF STATISTICAL METHODS IN EDUCATION (5). Prerequisite, Education 71 or equivalent. Required for the Master of Arts in Education except in case of those doing historical research.

This course provides the statistical training necessary for understanding the reports of modern educational investigations and for conducting simple investigations. In 103a consideration will be given to procedures in tabulating data; calculating measures of average, variability; sampling the properties and applications of the normal probability curve and methods of measuring reliability of educational data, and the use of graphic methods in education. In 103b the major attention will be given to methods of measuring correlation and the interpretation of coefficients of correlation; continued study of sampling and reliability. *Two and a half hours a week, fall and winter quarters.* Professor Jordan or Professor Munch.

104. TECHNIQUES IN EDUCATIONAL LEADERSHIP (2½).

The techniques by which communities may be led more effectively to work for better schools. The use of school reports, public meetings and programs, newspapers, campaigns, and professional organizations will be studied with a view to determining the most effective procedures for gaining community support for the program of the school. *Two and a half hours a week, alternate spring quarters.* Professor Phillips.

105ab. GUIDANCE AND ADMINISTRATION OF PUBLIC SCHOOL PUPILS (2½). Prerequisite, six full courses in education, including 103a or its equivalent.

(a) The first half of the course is a comprehensive introduction to the philosophy, areas, techniques, and plans of organization of guidance.

(b) The second half of the course is concerned with the interpretation of various types of guidance data and with the homeroom as an instrument for guidance. *Two and a half hours a week, alternate fall and winter quarters.* Professors Morrison, ...

106. GENERAL PRINCIPLES OF OCCUPATIONAL DIAGNOSIS AND GUIDANCE (5). Prerequisite, practical experience and at least two years of psychology and education.

This course is designed to provide a broad introduction to this field for graduate students who have had adequate training in general psychology and some practical experience in business, industry, or a profession. Two fairly distinct groups of students are invited to register for the course: (a) those who plan to become personnel or placement officers in public employment offices, industrial and commercial firms, schools, or colleges; (b) teachers, supervisors, and administrative school officers. *Five hours a week, alternate fall quarters.* Professor Bradshaw (of the Department of Philosophy).

110. PHILOSOPHY OF MODERN EDUCATION (5).

The biological, psychological, and sociological principles underlying modern life in a democracy will be examined critically as a basis for a sound philosophy of modern education. Readings, reports, observations, and discussions. *Five hours a week, alternate fall quarters.* Professor Bradshaw (of the Department of Philosophy).

130. PRINCIPLES AND METHODS IN ADULT EDUCATION (2½).

Consideration will be given in this course to (1) principles in organizing adult study groups; (2) how adults learn; (3) guidance and counselling of adults; (4) preparing curriculum materials for adult groups; and (5) teaching and learning methods and techniques in adult education. It is designed for professional and lay leaders of adults and others interested in the administration and supervision of adult education. *Two and a half hours a week, alternate spring quarters.* Professor ....

131. ADULT EDUCATION—A General Survey (2½).

Consideration will be given in this course to (1) current developments in adult education in the United States and foreign countries; (2) the history and philosophy of adult education; (3) the place of specialized fields in adult education; and (4) problems in managing adult education programs. It is particularly designed for teachers and supervisors in adult education, lay workers, school superintendents, and others interested in this field. *Two and a half hours a week, alternate spring quarters.* Professor ....

141. EDUCATION IN THE SOUTH (5).

This course gives an historical survey of education in the Southern states with special attention to its development, organization, administration, and supervision since 1876. Problems in the educational reorganization needed for the solution of school problems in the Southern states will be studied. *Five hours a week, alternate spring quarters.* Professor Knight.

142. HISTORICAL FOUNDATIONS OF MODERN EDUCATION (5).

This course traces the development of some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of the leading educational theorists, and by institutional practices. Textbooks, lectures, investigations, and reports. *Five hours a week, winter quarter.* Professor Knight.

143. SOCIAL AND EDUCATIONAL HISTORY OF THE UNITED STATES (History 170) (5).

The social and educational institutions and practices of the United States are traced through: (a) the period of transplanting of European institutions; (b) the period of modifications of institutional life to meet new conditions; and (c) the period of development of a social and an educational system of free common schools, high schools, and higher and technical education in harmony with the political and social ideals and institutions of America. Textbook, lectures, investigations, and reports. *Five hours a week, fall quarter.* Professor Knight.

144ab. RURAL EDUCATION (5).

A course planned to meet the needs of rural school teachers, principals, supervisors, and superintendents. Consideration will be given to the organization, administration, and supervision of rural school education in the United States, with special emphasis on present conditions in the South. Emphasis is placed upon relations to the community and utilization of community resources. *Five hours a week, alternate winter quarters.* Professor ....

145. COMPARATIVE EDUCATION (5).

This is a course in comparative education with emphasis upon the modern educational experience of and the more significant educational movements in certain foreign countries. Attention will be given to education as a means of national advancement and to the development of retarded national cultures through education. *Five hours a week, spring quarter.* Professor Knight.

146. CONTEMPORARY ISSUES AND TRENDS IN EDUCATION (5).

A study of tendencies and developments in elementary, secondary, and higher education, and in teacher training in the United States since 1900. *Five hours a week, spring quarter.* Professor Knight.

152ab. THE TEACHING AND SUPERVISION OF THE LANGUAGE ARTS IN THE ELEMENTARY GRADES (5).

152a. Oral and written expression, spelling, penmanship, and grammar will be considered during the first half of this course. 152b. Reading and children's literature will be discussed during the second half of the course. *Five hours a week, alternate fall quarters.* Visiting Professor Tippett.

154. THE TEACHING AND SUPERVISION OF THE SOCIAL STUDIES IN THE ELEMENTARY GRADES (2½).

The problems involved in supervising the organization, teaching, and evaluation of the elementary school program in history, geography, and the other social studies will be discussed in this course. Special attention will be given to recent experimental programs and recent materials. Readings, reports, investigations, and discussions. *Two and a half hours a week, alternate spring quarters.* Professor King.

155. THE TEACHING AND SUPERVISION OF THE NATURAL SCIENCES IN THE ELEMENTARY GRADES (2½).

This course considers the purposes and position of science in the elementary school curriculum, and seeks to lay a foundation for improved teaching within the field. Content will be largely determined by the needs of the particular group. *Two and a half hours a week, alternate spring quarters.* Professor Preston.

156. THE TEACHING AND SUPERVISION OF ARITHMETIC IN THE ELEMENTARY GRADES (2½).

The organization and selection of subject matter in arithmetic together with modern methods of teaching this subject in the elementary school. It is designed for both teachers and supervisors. *Two and a half hours a week, alternate spring quarters.* Professor......................

160ab. CURRICULUM CONSTRUCTION (5).

Open to seniors and graduate students with 25 quarter hours of credit in education.

(a) The general principles and techniques of curriculum construction on both elementary and secondary school levels will comprise the major part of this course. Special attention will be focused upon recent trends in curriculum revision and organization in our modern schools.

(b) This is a continuation of Education 160a in its *application* to the elementary and secondary schools. Problems and laboratory work will constitute a major part of the work. Special examination of recent state and city courses of study will aid in analyzing trends and proposed changes in the various subjects and activities of the curriculum. Individual and group committee work. *Two and a half hours a week, alternate fall and winter quarters.* Professor Gwynn.

161. TECHNIQUES AND PROCEDURES OF PROGRESSIVE EDUCATION (2½).

The philosophy, principles, and criteria of progressive education; application of progressive principles to developing and evaluating units in a course of study. Modern procedures for employing these units, so as to secure desired individual and social values, receive considerable attention. *Two and a half hours a week, alternate winter and spring quarters.* Professor McKee.

162. TEACHING PUPILS HOW TO STUDY (2½).

The physical and environmental factors that condition effective study, the necessary preliminary preparations for study, techniques for discovering a pupil's present study habits in each subject-matter field, the evaluation and improvement of study habits, and techniques for the supervision of practice and growth in each type of study will be considered. *Two and a half hours a week, alternate winter quarters.* Professor McKee.

163. SELF EVALUATION AND SELF IMPROVEMENT OF CLASSROOM TEACHERS (2½).

The primary consideration in this course is the development of both the attitudes and techniques which will enable teachers to appraise and improve their classroom work. It will stress the purposes and needs for such self appraisal, the types and agencies of evaluation, the techniques which can be utilized, the interpretation of results, and the developing of practical programs of improvement. *Two and a half hours a week, alternate spring quarters.* Professor McKee.

165. INVESTIGATIONS IN READING (2½).

This course will deal more intensively with such phases of the subject as cannot receive adequate emphasis in the regular methods course. Among the topics which will receive special consideration are: recent investigations of reading abilities and their import; children's interests in reading; analysis of the content of readers now in use in school libraries; reading tests; diagnostic and remedial work. *Two and a half hours a week, alternate fall quarters.* Visiting Professor Tippett.

170. PSYCHOLOGY OF THE ELEMENTARY SCHOOL SUBJECTS (5).

The applications of important findings of experimental research and of accepted theories of psychology to the effective teaching and learning of the materials in the various subject matter fields. Each subject will be treated in relation to its possibilities for the growth and development of socialized personalities, emphasizing both a motivated, constructive approach and a diagnostic remedial attack on a pupil's liabilities and difficulties. *Two and a half hours a week, alternate fall and winter quarters.* Professor McKee or Professor Jordan.

171. GROWTH AND DEVELOPMENT OF THE SCHOOL CHILD (5).

a. *Child development* (2½). A study of the growth and development of children up to the time of adolescence. Changes in emotions are emphasized as well as those of intellect.

b. *Adolescence*(2½). A study of the changes in emotions, attitudes, and interests which take place during the adolescent years. The underlying physiological changes are, of course, not neglected. *Five hours a week, spring quarter.* Professor Jordan.

172. THE PROBLEMS OF MALADJUSTMENT AMONG CHILDREN (2½).

Factors of personality maladjustments, of delinquency, and of emotional instability; various methods of therapy to be followed in the treatment of the more typical behavior difficulties. Case studies will be used to analyze such classroom problems as fear, jealousy, social maladjustments, and failures. *Two and a half hours a week, winter quarter.* Dr. Perry.

173. MENTAL MEASUREMENTS (5). Prerequisite, one course in educational psychology or a course in general psychology.

A study of mental tests both individual and group. The origin of tests, followed by a comparative study of the various types of group and individual tests. Tests of intelligence, interests, emotional stability, and of other personality tests will be treated. Ample opportunity will be offered for the actual administration of tests and the interpretation of their results. *Five hours a week, alternate spring quarters.* Professor Jordan.

174. USE AND INTERPRETATION OF EDUCATIONAL TESTS AND MEASUREMENTS (5).

a. Study of the needs for objective measure of educational outcomes is first made. There follows a treatment of the elementary principles of test construction, of the criteria used in the selection and appraisal of tests, and of the best techniques to be used in constructing informal classroom tests.

b. A continuation of *a* into the specific fields of interest whether in high school or elementary school tests. A thoroughgoing analysis of the principles of the construction of standard tests is made as well as a survey of the tests in one or more fields. (Prerequisite 174a). *Five hours a week, fall quarter.* Professor Jordan or Professor Morrison.

175. EXTRA-CURRICULAR ACTIVITIES (SOCIOLOGY 175) (2½).

Clubs, student participation in school government, physical education, publicity in school publications, commencement, many miscellaneous topics, theoretical and practical studies of institutions promoting successful programs, bibliographical materials. *Two and a half hours a week, spring quarter.* Professor Meyer.

179. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL INSTRUMENTAL MUSIC (2½).

Supplementing the class instruction in band and orchestral instruments, this course is designed to give the student the necessary preparation for organizing and teaching instrumental music. Discussions and comparative study of materials and methods. *Two and a half hours a week, ... quarter.* Professor.......................

180. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL CHORAL MUSIC (2½).

The principles and practice of choral singing, including the choral technique employed in training *a capella* ensembles, with a survey of music materials suitable for school, college, and church choirs. *Two and a half hours a week, ... quarter.* Professor...................

181. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL ENGLISH (5). Prerequisite, courses to be determined by the instructor.

The aims, courses of study, and methods found most effective in the teaching of grammar, composition (oral and written), and the different types of literature to pupils of high school age. Applicants should be thoroughly grounded in the fundamental principles of English grammar, should write and speak well, and should have more than average ability to appreciate literature. *Five hours a week, fall or spring quarter.* Professor Farrar.

183. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL FRENCH (5). Prerequisite, courses to be determined by the instructor.

In this course the student studies the development of modern language teaching. Particular stress is laid on present-day tendencies, more especially in connection with pronunciation, phonetics, reading, "realia," activities, texts, etc. Weekly reports on reading. Term paper. *Five hours a week, every quarter.* Professor Giduz.

185. MATERIALS AND METHODS OF TEACHING THE SOCIAL STUDIES (5). Prerequisite, courses to be determined by the instructor.

This course is organized around the following major divisions: first, an introduction to the social studies, their development, scope, place in the curriculum, and objectives; second, the course of study, including organization of subject matter and selection of materials and equipment; third, methods of instruction, an examination and evaluation of certain techniques; fourth, the use of teaching aids, such as visual materials, workbooks, and current literature; and finally, the construction, use, and interpretation of tests in the social studies. Readings, special investigations, reports, and discussions. *Five hours a week, fall or winter quarter.* Professor King.

187. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL LATIN (5). Prerequisite, courses to be determined by the instructor.

The history of the teaching of Latin will be discussed along with modern tendencies of instruction in this field. A special study will be made of high school Latin texts, and reports and discussions will emphasize the various methods used in teaching them. Helpful bibliographies will be compiled and examined. *Five hours a week, winter quarter.* Professor Gwynn.

189. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL MATHEMATICS (5). Prerequisite, courses to be determined by the instructor.

A course designed to give those preparing to teach mathematics in high school a comprehensive view of that field. It is composed of six units as follows: history of mathematics, objectives of mathematics teaching, materials, methods, the psychology of mathematics teaching, and measuring achievement in the field of mathematics. Reading and reports on these units will be required. *Five hours a week, fall quarter.* Professor Munch.

191. MATERIALS AND METHODS OF TEACHING HIGH SCHOOL SCIENCE (5). Prerequisite, courses to be determined by the instructor.

The objectives and curriculum position of secondary school science, the proper teaching viewpoint, instructional techniques, selection and use of equipment, evaluating results of science teaching. Trends of change in secondary school science in response to changing economic, social and educational developments are emphasized. Assigned readings introduce the important literature. *Five hours a week, fall or winter quarter.* Professor Preston.

193. MATERIALS AND METHODS OF TEACHING DRAMATICS IN HIGH SCHOOL (5). Prerequisite, courses to be determined by the instructor.

This course includes consideration of the teaching of oral English, the correction of speech faults, the teaching of dramatic literature and playwriting, the selection and production of plays, and the direction of dramatic clubs. To teach the written English required in the state elective in drama, applicants should be as well grounded in English fundamentals as applicants for Education 181. *Five hours a week, winter quarter.* Professor Farrar.

195. YOUTH PROBLEMS AND THE SCHOOLS (2½).

A survey of the principal problems of youth today along with some of the more recently developed youth-serving agencies: unemployment, marriage, citizenship, morality, health, religion, leisure, and recreation; needed adjustments in the schools. *Two and a half hours a week, alternate spring quarters.* Professor ....

196. THE JUNIOR HIGH SCHOOL (2½).

Forces and conditions giving rise to the junior high school; its special purposes; plans of organization; curriculum; methods of teaching; extra-curricular activities; provisions for individual differences for teachers and administrators. *Two and a half hours a week, alternate fall quarters.* Professor ....

197. SOCIAL POLICY AND EDUCATION (2½).

Fundamental problems in the social and ethical theory of education. Lectures, prescribed readings, essays, and reports. This course deals with problems of social progress from the standpoint of education, attempts to define a social policy for education, and discusses the vital educational issues involved in that policy. *Two and a half hours a week, alternate winter quarters.* Professor ....

198ab. SUPERVISION OF INSTRUCTION (5). Open only to graduate students with majors in education.

a) The nature and functions of supervision, recent trends in theory and practice, teacher participation in policy formation, the organization and planning of supervision, and the training and qualifications of the supervisor; classroom observation, devices for recording observations, and the supervisory post-observation conference.

b) Specific techniques and devices of supervision, including standards for judging teachers and teaching, professional tests for teachers, and teacher rating; the practical application of the techniques in supervisory services to curriculum improvement, the measurement of pupil progress, pupil and teacher relationships, extra-curricular responsibilities, and guidance. *Two and a half hours a week, fall and winter quarters.* Professor Gwynn or Professor McKee.

199. SECONDARY EDUCATION IN THE UNITED STATES (5). Prerequisite, four full courses in education.

The American high school, its evolution, organization, organization administration, functions, curriculum, and current developments. *Five hours a week, spring quarter.* Professor ....

Courses for Graduate Students

201. PROCEDURES IN EDUCATIONAL RESEARCH (2½).

Required of all candidates for higher degrees in the fields of educational administration and of secondary and elementary education, and is designed particularly to assist students in selecting problems for theses and in organizing, and writing master's and doctor's theses. Consideration will also be given to (1) the function of research in education; (2) types of research and the principle techniques of each type; (3) organization and interpretation of data; and (4) preparing and evaluating research reports. *Two and a half hours a week, fall quarter.* Professor ....

204. BUSINESS MANAGEMENT AND SCHOOL FINANCE (2½). Prerequisite, Education 101 or its equivalent.

The sources of public revenues, problems of state and federal taxation for schools, principles of school finance, school budget problems, public school accounting, and accounting for extra-curricular and student body funds within the school. Records and reports of prominent school systems will be examined with a view to giving the students a broad background in the field of public school business administration and finance. *Two and a half hours a week, alternate winter quarters.* Professor ....

206. MANAGEMENT OF SCHOOL PLANT AND EQUIPMENT (2½). Prerequisite, Ed. 101 or its equivalent.

Study will be given to practical problems in the operation and maintenance of public school buildings, improvement of school grounds, management of equipment and supplies, improvement of custodial service, school building surveys, and the construction and remodeling of school buildings. *Two and a half hours a week, alternate spring quarters.* Professor ....

208ab. STATE AND COUNTY SCHOOL ORGANIZATION (5).

Deals with the fundamental principles of educational administration as they apply to organized state and county school systems. Problems in the organization, administration, and financial support of these units will be studied. Designed to meet the needs of experienced teachers, principals, supervisors, and superintendents. *Five hours a week, alternate winter quarters.* Professor ....

271ab. PROBLEMS IN EDUCATIONAL PSYCHOLOGY I (5). Prerequisite, one and preferably two courses in educational or developmental psychology.

a. *Individual Differences* (2½). An intensive course in the causes and educational provisions for individual differences.

b. *Problems of Conduct* (2½). Considers problems of maladjustment in the fields of character, intellect, and emotions. *Five hours a week, fall quarter.* Professor Jordan.

272ab. PROBLEMS IN EDUCATIONAL PSYCHOLOGY II (5). Prerequisite, one and preferably two courses in educational and developmental psychology.

a. *Psychology of Learning* (2½). An intensive study of the theoretical aspects of learning.

b. *Psychology of Learning* (2½). Emphasis in this course is on the practical applications of the theories developed in 272a. *Five hours a week, winter quarter.* Professor Jordan.

273. TESTS AND MEASUREMENTS IN GUIDANCE (5). Prerequisite—An elementary course in statistics or its equivalent is recommended.

A study of the principles of test construction and of the application of these various types of measures to educational and vocational guidance. Tests of intelligence, achievement, personality (including those of interest and emotion), rating scales, trade tests, and other methods of collecting formal and informal data about the individual child are critically evaluated. *Five hours a week, fall quarter.* Professor Jordan.

s281. TRENDS AND PROBLEMS IN THE TEACHING OF ENGLISH (2½). Prerequisite, a year's experience of teaching English.

Studies and investigations of recent tendencies in English curricula and methods, and consideration of certain neglected aims and opportunities in the teaching of English. *Five hours a week in the summer session.* Professor Farrar.

s283. PROBLEMS IN THE MATERIALS AND METHODS OF TEACHING MODERN FOREIGN LANGUAGES (2½). Prerequisite, a year's experience of teaching some modern language in secondary school or college.

This course is primarily for teachers of the modern foreign languages: French, Spanish, and German.

The work will consist of the discussion of problems and research in the particular field of the student. Current trends and investigations in instruction and curriculum of the language in which the student is interested will be discussed. A term paper will be required dealing with some problem in the field of interest of the student. *Five hours a week in the summer session.* Professor Giduz.

285. INVESTIGATIONS AND TRENDS IN TEACHING THE SOCIAL STUDIES (2½).

Studies and investigations dealing with the philosophy, organization, and teaching of the social studies; and a critical evaluation of recent trends in this field. The recent reports of national committees, the results of experimental research, the organizations of experimental programs, and new types of teaching materials will be examined. Readings, investigations, reports, and discussions. *Two and a half hours a week, alternate fall quarters.* Professor King.

s291. INVESTIGATIONS AND TRENDS IN TEACHING NATURAL SCIENCES (2½). Prerequisite, a year's experience in teaching science in secondary schools.

Modern trends and investigations in organizing, teaching, and evaluation within the secondary school science field will be studied critically. Special problems, readings, reports, and discussions. *Five hours a week in the summer session.* Professor Preston.

296ab. THE ORGANIZATION AND ADMINISTRATION OF SECONDARY SCHOOLS (5). Prerequisite, two courses in secondary education.

a) Organization of secondary school units; housing; selecting and assigning the staff; schedule making; organization of guidance and of extra-curricular activities.

b) Organization and administration of discipline; student participation in government and management. Public relations and publicity; pupil, equipment, and internal fund accounting and related problems of administration; government; and problems of organization and administration relating to instruction. *Five hours a week, alternate winter quarters.* Professor ....

303abc. PROBLEMS IN EDUCATIONAL ADMINISTRATION (2½ to 7½). Prerequisite, Education 101 or its equivalent and one other course in educational administration.

A graduate course offering opportunity for intensive study and research on selected problems or school surveys in the field of educational administration. The problems will be selected by the individual class members each quarter, making it possible for students to take this course more than once. *Two and a half hours a week, any quarter.* Professor ....

304. PROBLEMS IN EDUCATIONAL MEASUREMENT (2½ to 7½). Prerequisite, Education 164 or 194.

Students who wish to specialize in educational measurements may take this course more than once if desired, since the problems considered will differ from year to year. *Two and a half hours a week, any quarter.* Professor Jordan.

341abc. FOUNDATIONS OF MODERN EDUCATION (2½ to 7½).

This is a research course in modern educational practices and institutions and is open only to those advanced students who have had Education 142, 143, or the equivalent. Various educational agencies will be studied through investigations, reports, and conferences. *Two and a half hours a week, fall, winter, and spring quarters.* Professor Knight.

350. PROBLEMS IN ELEMENTARY EDUCATION (2½ to 7½).

This is an advanced course in the study and investigation of the most crucial problems and topics in the field of elementary education. It is meant primarily for principals, supervisors, and experienced teachers. Emphasis will be placed not only on finding solutions to problems but on the development of techniques for the defining, analyzing, and planning of attacks on problems. *Two and a half hours a week, any quarter.* Professors McKee, Morrison.

375. THESIS COURSE (Maximum 5).

This is a course in which a student engaged upon a thesis enrolls with his adviser. *Any quarter.* Professors in the Department of Education.

376. SEMINAR COURSE (2½ to 7½).

A research course in a special field under the direction of a member of the department. Students may register and receive credit for one, two, or three quarters. *Two and a half hours a week, any quarter.* Staff.

398abc. PROBLEMS IN SECONDARY EDUCATION (2½ to 7½). Prerequisite, two previous courses in secondary education.

This course provides the opportunity for graduate students to carry on (a) an intensive study of some topic in secondary education employing library techniques and resources, or (b) a limited research project, or (c) a field study in a secondary school employing accepted techniques of investigation. A written report is required. The course may be taken for more than one quarter. *Two and a half hours a week, every quarter.* Professor ....

*DEPARTMENT OF ENGLISH

Professors: G. R. Coffman, F. H. Koch, J. M. Booker, G. M. McKie, G. C. Taylor, **W. F. Thrall, G. L. Paine, A. P. Hudson, A. C. Howell, Dougald MacMillan (Secretary), C. P. Russell, E. E. Ericson, R. P. Bond, Raymond Adams.

Associate Professors: W. A. Olsen, R. B. Sharpe, H. K. Russell.

Assistant Professors: R. P. McClamroch, J. O. Bailey, W. S. Wells.

Instructors: G. F. Horner, E. H. Hartsell, W. F. McNeir, J. K. Svendsen, G. H. Daggett, A. D. B. Langston, E. S. Miller, R. S. Osborne, D. A. Brown, Francis Cook, N. H. Henry, Joe C. Horrell, William Peery, H. W. Sams, R. W. Wallace, J. B. Wilson.

Teaching Fellows: G. H. Foster, A. C. Morris, G. P. Winship.

Assistants: W. D. Booth, William Bracy, R. M. Lumiansky, W. L. Moses, Cecil Sanford, N. T. Joost.

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* A student choosing English as his major field should take (a) Eng. 50; (b) one of the following: Eng. 91, 93, 95, 99, 163; (c) one of the following: Eng. 70, 112, 125; (d) one of the following: Eng. 79, 81, 82, 88, 89, 111, 121, 131, 141, 151; (e) four courses chosen as free electives from the advanced courses offered by the department (courses numbered from 41 to 199, with the exception of 51 and 59). Students who so desire may utilize all or some of these free electives to make up, in consultation with their adviser, a related group of courses representing some individual interest, such as writing, American literature, or a particular field of English literature.

Students planning to teach in the public high schools should consult the course program in English in the Teacher-Training Division, page 178.

Students interested in reading for honors in English should consult the statement on p. 113.

** Absent on leave, fall and winter quarters, 1939-1940.

NOTE: English 1-2-3 and English 22-23-24 are prerequisite to all advanced courses in the department. Juniors will not be admitted to courses for advanced undergraduates except by special permission.

1-2-3. FRESHMAN ENGLISH (9). Required of all Freshmen.

English 1 (fall) has for its object practical control of the sentence as a rhetorical unit and an understanding of the relation of sentence structure to paragraph structure. English 2 (winter) centers attention upon the paragraph and begins consideration of the technical problems of the longer theme. English 3 (spring) is devoted to study of the structure and style of the essay, and undertakes an approach toward the problems of the literature course in the sophomore year. In all three quarters the student pursues directed readings, writes frequent themes, and has personal conferences with his instructor. Students with serious speech deficiencies will be given diagnostic tests and appropriate remedial advice and training. *Three hours a week, throughout the year.* Professors Hudson (Chairman), McKie, Bailey, Wells; Messrs. Horner, McNeir, Hartsell, Langston, Svendsen, Foster, Daggett, Horrell, Miller, J. B. Wilson, Cook, Henry, Peery, Sams, Wallace, Morris, Winship, Booth, Bracy, Lumiansky, Moses, Sanford.

22-23-24. ENGLISH LITERATURE (9). Prerequisite, English 1-2-3. Sophomore requirement.

English 22 and 23 present a chronological introduction to English literature through the study of representative works. English 24, a course in modern literature, introduces the student to the various types of literature. *Three hours a week, throughout the year.* Professors Adams (Chairman), Coffman, Booker, McKie, Taylor, Thrall, Paine, Hudson, MacMillan, Ericson, Bond, McClamroch, Sharpe, Harry Russell, Bailey, Wells; Messrs. Horner, McNeir, Hartsell.

41. THE ORAL INTERPRETATION OF DRAMATIC LITERATURE (5).

Elizabethan, eighteenth-century, and modern plays are used to give variety in dramatic expression. (Not offered 1940-1941.) *Five hours a week, fall quarter.* Professor McKie.

42. THE ORAL INTERPRETATION OF LITERATURE (5).

A course in the oral reading of poetry and drama with attention to Shakespeare and modern writers. Individual choice in the selection of material is encouraged. Training, supplemented by recordings, in voice and enunciation. *Five hours a week, spring quarter.* Professor McKie.

44. PUBLIC SPEAKING: INTRODUCTORY COURSE (5).

The purpose is to improve the student's ability to speak in public and private. Emphasis is placed on a realistic approach, organization of material through written outlines, composition, language, delivery. Several recordings are made for each student. *Five hours a week, every quarter.* Professor Olsen.

45. ARGUMENTATION AND PUBLIC DISCUSSION (5).

Emphasis is placed on a realistic approach to controversial questions, with analyses through outlines and briefs. Attention to types of argument, fallacies, problems of persuasion, types and procedures of public discussion. Several recordings are made for each student. *Five hours a week, winter quarter.* Professor Olsen.

50. SHAKESPEARE (5).

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, fall quarter.* Professor Taylor; *spring quarter,* Professor Koch.

Registration in English 51, 52, 53, 54, 59 is limited. Before registering for these courses, students must secure the permission of the instructors.

51. ADVANCED COMPOSITION: PRACTICAL EXPOSITION (5).

A course primarily for students in the Schools of Commerce and Pharmacy, designed to give practice in writing the forms commonly used in the business world: letters, reports, professional papers, and articles for the press. *Five hours a week, fall or spring quarter.* Professor Howell.

52. ADVANCED COMPOSITION: THE TECHNIQUE OF EXPOSITION (5).

A course in expository writing for students desiring practice in organization of material. *Five hours a week, fall quarter.* Professor Howell; *spring quarter,* Professor C. P. Russell.

53. CREATIVE WRITING I (5).

Study and practice of various forms of original and imaginative writing, including verse, the short story, and the novel. Class criticism and discussion. *Five hours a week, fall quarter.* Professor C. P. Russell.

54. CREATIVE WRITING II (5).

To some extent parallel to English 53, but paying special attention to modern, experimental, and regional writing. *Five hours a week, winter quarter.* Professor C. P. Russell.

59. SCIENTIFIC WRITING (5).

Expository writing designed to meet the needs of students in the sciences. Practice in writing explanations, descriptions, simple business letters, professional papers, and reports. Conferences, reading in scientific periodicals, and reports. *Five hours a week, winter quarter.* Professor Howell.

70. CHAUCER (5).

The essential work of the course is a reading of *The Canterbury Tales* and certain other selected works of Chaucer with a view to revealing the poet as a literary artist. *Five hours a week, winter quarter.* Professor Coffman.

71-72-73. COURSES FOR HONORS (15).

Readings and the preparation of an essay, under the direction of departmental advisers. Normally the first course of reading is pursued in the junior year, the second course and the writing of the essay in the senior year. See the Program for Honors Work in the Division of in Humanities, page 113.

76. MASTERPIECES OF THE NINETEENTH CENTURY (5).

The aim of this course is to reveal certain masterpieces of the past century as commentaries on man's relation to God, nature, woman, and the state. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Booker.

79. ENGLISH LITERATURE (1890-1920) (5).

The aim of this course is to follow the main current of thought in the more significant literature of the three decades closing with the World War. *Five hours a week, fall quarter.* (1940-1941 and alternate years.) Professor Booker.

81. AMERICAN LITERATURE I (5).

A survey of American literature from 1830 to 1855, with especial attention to Poe, Emerson, Thoreau, Lowell, Hawthorne, and Melville. *Five hours a week, fall quarter.* Professor Adams.

82. AMERICAN LITERATURE II (5).

A survey of American literature from Whitman to the present with especial emphasis upon the literature of the South. The course includes a study of the local color movement, traces the rise of realism, and surveys the social novel after 1880. *Five hours a week, winter quarter.* Professor Adams.

83. PROSE AND POETRY OF THE CLASSICAL PERIOD (5).

The chief works of the major writers of the Classical Period will be studied in connection with the historical, social, and philosophical background. The approach will be critical and scholarly, and bibliographical phases of the subject will be subordinated to an appreciation of literary merit. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Bond.

84. THE CHIEF ROMANTIC POETS (5).

The course will include the best poetry, and some of the letters and critical writing of Burns, Wordsworth, Coleridge, Byron, Shelly, and Keats. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Hudson.

87ab. LITERARY ASPECTS OF THE BIBLE (3 each).

For description see Biblical History and Literature 87ab.

88. VICTORIAN LITERATURE I, 1832-1860 (5).

A survey: Carlyle, Tennyson, Browning, Dickens, Thackeray, and Charlotte Brontë. *Five hours a week, winter quarter.* Professor Booker.

89. VICTORIAN LITERATURE II, 1860-1890 (5).

A survey: Ruskin, Rossetti, Morris, Swinburne, George Eliot, and Meredith. *Five hours a week, spring quarter.* Professor Booker.

91. THE ENGLISH NOVEL (5).

A study of the English novel from Defoe to Hardy. *Five hours a week, winter quarter.* Professor MacMillan.

93. ENGLISH DRAMA (5).

A study of English drama from the beginning to 1900. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Sharpe.

95. THE MODERN ENGLISH LANGUAGE (5).

A study of English of the present day, standard as well as dialectal. The historical background and development of English. Comparative studies in British and American English. *Five hours a week, spring quarter.* Professor Ericson.

97. CONTEMPORARY LITERATURE (5).

A study of English and American prose writings since 1920. Representative works will be analyzed and related to the cultural influences of the period. *Five hours a week, winter quarter.* Professor Harry Russell.

98. CONTEMPORARY POETRY (5).

A study of selections from American and English poets whose work has achieved an individual yet essentially homogeneous expression chiefly since 1918. *Five hours a week, spring quarter.* Professor McClamroch.

99. HISTORY OF ENGLISH LITERATURE (5).

This course is designed to strengthen the student's factual framework of essential literary history and to enable him to supplement the gaps in his first hand knowledge of important and significant literary productions. It is required of seniors with majors in English whose course average in the department is lower than B, but open to all who desire to prepare for the comprehensive examination. *Five hours a week, fall quarter.* Professor Sharpe.

DEBATING (3).

A course in the discussion and analysis of current public questions. Occasional lectures by various members of the faculty. *Weekly meetings throughout the year.* Professor Olsen (Chairman).

Courses for Graduates and Advanced Undergraduates

Except by special permission juniors will not be admitted to these courses.

101. OLD ENGLISH GRAMMAR AND READINGS (5).

Selections for translations from Early and Late West Saxon prose and from Old English poetry. Drill in the principles of English philology. Old English in relation to the other Germanic languages. *Five hours a week, fall quarter.* Professor Ericson.

105. MEDIEVAL ROMANCE IN ENGLISH (5).

A survey of medieval romance and romance materials in English literature, with particular attention to the Arthurian tradition. *Five hours a week, spring quarter.* Professor Thrall.

111. ENGLISH LITERATURE OF THE RENAISSANCE (5).

A survey of the literature of the Elizabethan period, exclusive of the drama. *Five hours a week, fall quarter.* Professor Thrall; 1939: Professor Wells.

112. SPENSER (5).

The works of Spenser are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, winter quarter.* Professor Thrall; 1940: Professor Wells.

113. ENGLISH DRAMA TO 1600 (5).

English Drama in the Sixteenth Century with preliminary consideration of the religious drama in Western Europe and in Medieval England. *Five hours a week, fall quarter.* Professor Coffman.

114. ENGLISH DRAMA, 1600-1642 (5).
Five hours a week, winter quarter. Professor Sharpe.

121. ENGLISH LITERATURE, 1616-1700 (5).
The non-dramatic literature of the period. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Howell.

125. MILTON (5).
The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, fall quarter.* Professor Taylor.

131. ENGLISH LITERATURE, 1700-1780 (5).
The non-dramatic literature of the period. *Five hours a week, fall quarter.* Professor Bond (1940); Professor MacMillan (1941).

133. RESTORATION AND EIGHTEENTH-CENTURY DRAMA (5).
A study of the drama from 1660 to 1780. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor MacMillan.

141. ENGLISH LITERATURE, 1780-1830 (5).
A survey of English literature of the romantic period with especial attention to the greater poets. *Five hours a week, winter quarter.* Professor Hudson.

148. ENGLISH DRAMA, 1780-1880 (5).
Romantic and Victorian drama studied in the light of theatrical and social conditions and with attention to Continental influences. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor MacMillan.

149. AMERICAN DRAMA, 1890-1930 (5).
A brief survey of the nineteenth century English and American drama, and a study of the development of the American drama in the twentieth century through representative plays. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Koch.

151. EARLY AMERICAN LITERATURE (5).
A survey of the literature of the colonial, revolutionary, and early national periods, including Bryant, Irving, and Cooper. *Five hours a week, fall quarter.* Professor Paine.

161. COMPARATIVE DRAMA (5).
A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays (in translation) of the leading European dramatists. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Koch.

162. MODERN DRAMA (5).
A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Koch.

163. LITERARY CRITICISM (5).
The principles which have animated classical, romantic, and realistic literature. *Five hours a week, winter quarter.* Professor Bond.

167. THE ENGLISH BALLAD (5).

The study of the English and Scottish popular ballads, with a survey of ballad survivals in America, particularly in North Carolina. Students in the course who may have access to ballads in oral circulation will be encouraged to collect them. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Hudson.

Courses for Graduates

201. STUDIES IN OLD ENGLISH LITERATURE: BEOWULF (5). Prerequisite, English 101.

Five hours a week, winter quarter. Professor Ericson.

202. MIDDLE ENGLISH (5).

The main purpose of the course is to acquaint the student with the literature of the period through relation to the social, political, and religious background. *Five hours a week, spring quarter.* Professor Coffman.

204. HISTORY OF THE ENGLISH LANGUAGE (5). Prerequisite, English 101, 202.

An intensive and detailed study of the language according to historical methods. General Indo-European phenomena as applied to English. Special attention to English dialects and the development of Standard Literary English in the Middle English period. For students of linguistics and others wishing a thorough background for literary studies in the English classics. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Ericson.

208. CHAUCER (5).

The work of the course will consist chiefly of a reading and discussion of Chaucer's works, with attention to the critical and historical problems involved in their interpretation, and with some consideration of Chaucer's language. Previous training in Old or Middle English is not prerequisite. *Five hours a week, spring quarter.* Professor Coffman.

231-232. SHAKESPEARE (10).

The works of Shakespeare are studied with emphasis upon the historical and critical problems which they present. *Five hours a week, winter and spring quarters.* Professor Taylor.

243. VICTORIAN LITERATURE I, 1832-1890 (5).

A study of one of the two main literary currents of the Victorian period—the usage of Classical, Medieval, and Renaissance sources by Tennyson, Browning, Arnold, Morris, and Swinburne. Not prerequisite to English 244. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Booker.

244. VICTORIAN LITERATURE II, 1832-1890 (5).

A study of one of the two main literary currents of the Victorian period—the social and religious literature of Carlyle, Dickens, and the humanitarian novelists, Tennyson, Browning, Ruskin, Arnold, Morris, and Swinburne. Not prerequisite to English 243. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Booker.

283. AMERICAN LITERATURE, 1830-1855 (5).

This survey course follows English 151, which is not, however, prerequisite. The chief authors are Poe, Emerson, Thoreau, Longfellow, Lowell, and Hawthorne. Especial attention is given to the literature of the South. (1940-1941 and alternate years.) *Five hours a week, spring quarter*. Professors Adams, Paine.

284. AMERICAN LITERATURE, 1855-1900 (5).

This survey course follows English 283, which is not, however, prerequisite. The chief authors are Melville, Lanier, Whitman, Mark Twain, Bret Harte, Howells, and James. Stress is placed upon the cultured and folk literature of the South, the influence of Whitman upon poetry, the rise of realism, literary criticism, and the dominance of magazines. (1941-1942 and alternate years.) *Five hours a week, spring quarter*. Professor Paine.

307. SEMINAR: STUDIES IN MEDIEVAL LITERATURE (5).

Research in special problems concerning various aspects of the vernacular literature of the middle ages. (Not offered 1940-1941.) *Five hours a week, winter quarter*. Professor Coffman.

310. SEMINAR: STUDIES IN ELIZABETHAN LITERATURE (5).

Research in special problems in Elizabethan literature. *Five hours a week, spring quarter*. Professor Taylor.

312. SEMINAR: STUDIES IN SEVENTEENTH-CENTURY LITERATURE (5).

Research in special problems in the literature and thought of the seventeenth century. (1940-1941 and alternate years.) *Five hours a week, winter quarter*. Professor Howell.

313. SEMINAR: STUDIES IN EIGHTEENTH-CENTURY LITERATURE (5).

Special problems in the literary and intellectual movements of the eighteenth century. *Five hours a week, spring quarter*. Professor MacMillan (1941), Professor Bond (1942).

317. SEMINAR: STUDIES IN NINETEENTH-CENTURY ROMANTICISM IN ENGLAND (5).

The seminar is given in two divisions in alternate years. In 1940, Byron and Shelley, second-generation leaders of Romantic revolt: English and Continental aspects of their thought and art. In 1941, Wordsworth and Coleridge: the English and Continental aspects of their thought and art. *Five hours a week, spring quarter*. Professor Hudson.

318. SEMINAR: STUDIES IN AMERICAN LITERATURE (5).

Five hours a week, winter quarter. Professor Paine.

320. SEMINAR: STUDIES IN VICTORIAN LITERATURE (5).

Special problems in the literature appearing between 1832 and 1890. *Five hours a week, winter quarter*. Professor Booker.

325. SEMINAR: MODERN DRAMA (5).

Special studies in English or American drama. See Dramatic Art 325. *Five hours a week, fall quarter*. Professors Sharpe, Koch, Selden (of the Department of Dramatic Art).

331. BIBLIOGRAPHY AND METHODOLOGY (5).

A course designed to aid students in preparing term papers, theses, and dissertations. The bibliographical guides for the study of English are presented, the problems of literary research are discussed, and the standard procedures and forms in writing scholarly papers are taught. Required of all candidates for the A.M. and Ph.D. degrees. *Five hours a week, winter quarter.* Professor Paine.

340. SPECIAL READINGS (5).

Research in a special field under the direction of a member of the department. This course may not be repeated for credit.

341. SPECIAL RESEARCH (5).

Investigation in a special field under the direction of a member of the department.

Attention is called to the courses in philology and advanced literary study offered in the Department of Classics (Latin 202, Latin Epigraphy; Latin 203, Latin Paleography), General and Comparative Literature, Germanic Languages (Gothic, Old and Middle High German, Old Saxon, Old Norse, etc.), and Romance Languages (French 221-222-223, Old French; French 225, Provençal; Celtic 105, Old Irish; Spanish 221-222, Old Spanish; Italian 131-132, Dante, etc.).

See the Department of Comparative Linguistics.

*DEPARTMENT OF GENERAL AND COMPARATIVE LITERATURE

Professors: HUSE (Acting Chairman), KOCH, HARRER, DEY, HOLMES, THRALL, TAYLOR, COFFMAN, N. B. ADAMS, LYONS, HOWELL, JENTE, SANDERS, BOND.
Associate Professors: BOGGS, STOUDEMIRE, WILEY, EPPS.
Assistant Professors: FRIEDERICH, LINKER.

Courses for Undergraduates

50. A SURVEY OF WORLD LITERATURE: GREEK AND ROMAN LITERATURE (5).

A course on the great authors of Greece and Rome. Emphasis is on understanding the classics as literature and as a reflection of the civilization, culture, and viewpoints of antiquity. *Five hours a week, winter quarter.* Professors Epps, Harrer.

51. A SURVEY OF WORLD LITERATURE: THE MODERN PERIOD (5).

This is a continuation of the preceding courses. It will survey briefly the principal contributions to world literature from Italy, Spain, France, Germany, Russia, and the Scandinavian countries. *Five hours a week, spring quarter.* Professor Dey.

61. GREEK LITERATURE (5).

A survey of Greek literature in English translation, with special reference to the contribution of Greece to modern thought, and to literary forms. *Five hours a week, fall quarter.* Professor Epps.

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* The purposes of courses in this department are: to offer students who cannot study certain of the classical and modern languages an opportunity to become familiar with the most important works translated from them; to furnish a view of the culture and values of the past and of various nations; to present a survey of the most important figures in world literature, including English; and to provide, in the case of certain courses, a more strictly comparative study of literary forms and movements.

An undergraduate major in the department consists normally of six to eight of the following courses (at least two of which must be from the classics): Homer; Vergil; the Greek Drama; Cervantes; Shakespeare; Milton; French Classicism; Lessing and Schiller; Goethe, and Dante. In case of special needs other courses in the department may be substituted.

62. LATIN LITERATURE (5).

A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Professor Sanders.

64. GREEK AND ROMAN COMEDY (5).

Extensive reading of the comedies of Aristophanes, Menander, Plautus, and Terence in English translation, with attention to the form and characteristics of each and to the history of comedy in the Greek and Roman world. *Five hours a week, winter quarter.* Professors Epps, Harrer.

65. ORIENTAL LITERATURE (5).

The epics, dramas, etc., of the Hindus, Chinese, and other peoples are studied for their revelation of the Oriental outlook on life, and for their contribution to Occidental literature and thought. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Holmes.

68. SHAKESPEARE (5). (Same as English 50.)

A study of Shakespeare's plays. About twenty representative comedies, tragedies, and histories will be studied. *Five hours a week, fall quarter,* Professor Taylor; *spring quarter,* Professor Koch.

70. CHAUCER (5).

The essential work of the course is a reading of *The Canterbury Tales* and certain other selected works of Chaucer with a view to revealing the poet as a literary artist. *Five hours a week, winter quarter.* Professor Coffman.

87ab. LITERARY ASPECTS OF THE BIBLE (3 each).

For description see Biblical History and Literature 87ab.

Courses for Graduates and Advanced Undergraduates

103. GREEK AND ROMAN EPIC (5).

Homer's Iliad and Odyssey, Vergil's Aeneid, and the minor Greek and Roman Epics. The ancient epic forms and characteristics will be studied. *Five hours a week, spring quarter.* Professors Epps, Harrer.

107. GREEK DRAMATIC LITERATURE (5).

Extensive reading of the Greek tragedies, with attention to the origin, development and content of Greek drama, and the Greek approach to life as presented in Greek tragedy. *Five hours a week, fall quarter.* Professor Epps.

117. CERVANTES (5).

Consideration of the Romances of Chivalry in Spain; study of Cervantes' *Don Quixote* and the *Exemplary Novels* in English translation. *Five hours a week, spring quarter.* Professor Stoudemire.

125. MILTON (5).

The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. *Five hours a week, fall quarter.* Professor Taylor.

135. FRENCH CLASSICISM (5).

A general survey of the origins of classicism in France. Assigned readings in the Greek and Latin writers with emphasis on the modification of their art which explains the masterpieces of the French 17th century. A large part of the course will be given over to the plays of Corneille, Molière, Racine, and their contemporaries. The decline of classicism in France, and the evolution toward an unrestricted type of literature. *Five hours a week, spring quarter.* Professor Wiley.

137. A BRIEF SURVEY OF GERMAN LITERATURE (5).

The main trends in the development of German literature from its beginning to the present time. Lectures and extensive outside readings in English. This course is especially designed for seniors and graduate students, and cannot be taken for credit by students whose major is in German. *Five hours a week, fall quarter.* Professor Friederich.

155. GOETHE (5).

A study of the man, thinker, and poet in connection with the German and general European movements of thought and literature in his time. Lectures and reports. *Five hours a week, spring quarter.* Professor Friederich.

156. DANTE (5).

A study of translations of the *Vita Nuova* and the *Divine Comedy;* the precursors of Dante and the poets of the *dolce stil nuovo*. Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, winter quarter.* Professor Huse.

161. COMPARATIVE DRAMA (5).

A general survey of the drama and the theatre from Aeschlyus to Ibsen. Special attention is given to the function of the drama in representative plays of the leading European dramatists. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Koch.

162. MODERN DRAMA (5).

A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Koch.

163. LITERARY CRITICISM (5).

The principles which have animated classical, romantic, and realistic literature. *Five hours a week, winter quarter.* Professor Bond.

170. THE MIDDLE AGES (5).

A survey of Medieval France, England, Germany, Spain, Italy, and Byzantium, from the point of view of civilization and especially of art and literature. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Holmes.

173. MEDIEVAL ROMANCE (5). (Same as English 105.)

A survey of Medieval romance and romance materials in English literature, with particular attention to the Arthurian tradition. *Five hours a week, spring quarter.* Professor Thrall.

175. THE RENAISSANCE (5).

An account of the establishment of modern European culture. Lectures on the history, science, fine arts, literary scholarship, and literature of the Renaissance in Italy, France, Germany, The Netherlands, and England. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professors Holmes (Chairman), Adams, Lyons, Friederich, Linker.

177. LITERARY INFLUENCES IN FRANCE, GERMANY, AND ENGLAND IN THE EIGHTEENTH CENTURY (5).

The *Querelle des Anciens et des Modernes;* French classicism (Voltaire) in its defense against growing English Pre-romanticism and German Sturm und Drang. The influence of Shakespeare and Milton on the continent and of Rousseau in Germany. *Five hours a week, winter quarter.* Professor Friederich.

185. INTRODUCTION TO FOLKLORE (5).

Origin, evolution, and bibliography of types. Literary significance, as seen in the development of prose fiction. Collections, such as the *Panchatantra, Seven Sages, Arabian Nights,* etc., and the continuation of these tales through medieval and modern literature. *Five hours a week, fall quarter.* Professor Boggs.

Course for Graduates

204. PHILOSOPHICAL IDEAS IN DRAMATIC LITERATURE (5).

A study of dramatic literature as interpreted from the point of view of social, political, and philosophical theories. *Five hours a week, winter quarter.* Professor Green.

*DEPARTMENT OF GEOLOGY AND GEOGRAPHY

Professor: W. F. Prouty.
Associate Professors: S. T. Emory, J. W. Huddle.
Assistant Professors: F. C. Erickson, W. H. Irwin.
Instructors: R. A. Edwards, Ogden Tweto, R. O. Bloomer, J. R. Clair, J. C. McCampbell.
Teaching Fellow: S. W. West.
Assistants: S. D. Broadhurst, R. J. Martin.

GEOLOGY

Courses for Undergraduates

3b. (Natural Science 3b). ELEMENTS OF GEOLOGY (4). Freshman elective. See Departments of Botany and Zoology for Natural Science 1 and 2.

A brief survey of the field of geology. The course emphasizes the

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[*] For A.B. with major in Geology there are required beyond Introduction to Geology: Geology 101, 102, 103, 104, 105, 106 or 107, 108, 109. The introductory courses in chemistry and physics are required, but may be taken in the General College. Four additional courses are to be chosen from allied departments, and six courses outside the Division of Natural Sciences.

For S.B. in Geology, there are required: Freshman Year—Geology 21-22-23, or 41-42, English 1-2-3, Math. 1-2-3, Social Science 1-2-3, Foreign Language 1-2-3 (or 11-12-13), Hygiene 1-2-3, Physical Education 1-2-3; Sophomore year—Geography 31-32-33, English 21-22-23, Chemistry 1-2-3, Math. 41, 51, 52. Further requirements are: Geology 101, 102, 103, 104, 105, 106, 107, 108, 109; Physics 21-22-23, Foreign Language or English 59 and 44, Zoology 41 or Botany 41 (In special cases, an advanced science course other than geology may be substituted) and the summer Field Course in Geology 128-129. A total of 194 quarter hours are required for graduation.

For A.B. with major in Geography see footnote on page 207.

geologic basis of North American scenery and the geologic factors in modern civilization. A field trip is required. *Three lecture and two laboratory hours a week, winter or spring quarter. Laboratory and field trip fee, $2.00.* Professor Huddle; Assistant.

21-22-23 (11-12-13). INTRODUCTION TO GEOLOGY (12).

An introductory course in physical and historical geology. The structure, composition, surface expression, and history of the earth and its inhabitants are studied. Lectures, laboratory, and required field work. *Three lecture and two laboratory hours a week, throughout the year. Laboratory fee, $2.00 a quarter.* Professors Prouty, Huddle, Irwin; Messrs. Edwards, Tweto; Assistants.

41-42. INTRODUCTION TO GEOLOGY (12).

This course is equivalent to Geology 21-22-23, but is given in two quarters instead of three. *Four lecture and four laboratory hours a week, winter and spring quarters. Laboratory fee, $3.00 a quarter.* Professors Prouty, Huddle, Irwin; Messrs. Edwards, Tweto; Assistants.

Courses for Graduates and Advanced Undergraduates

101 (43). MINERALOGY (6). Prerequisite, Chemistry 1-2-3 or 4-5.

Elementary crystallography; physical and chemical properties and the classification of minerals; laboratory practice in the identification of important minerals. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $7.00.* Professor Irwin; Mr. Bloomer.

102 (133). LITHOLOGY AND THE ELEMENTS OF PETROLOGY (5). Prerequisite, Geology 21-22-23 or 41-42, and 101.

An introductory study of the origin, classification, and distribution of rocks with special emphasis on the hand specimen identification of common igneous, sedimentary, and metamorphic rock types. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $3.50.* Professor Irwin.

103 (121). FIELD GEOLOGY (5). Prerequisite, Geology 101, 102, Mathematics 41, 51, 52.

A course in geologic field methods with special emphasis on geologic surveying, mapping, note taking, and field practice. *Three lecture and four laboratory hours a week, spring quarter. Laboratory fee, $3.50.* Professor Prouty.

104, 105, 106 (77, 78, 47). ADVANCED GENERAL GEOLOGY (5 each). Prerequisite, Geology 103, Physics 21-22-23 or 24-25.

A professional course in general geology. The first quarter deals with the physical processes of dynamic geology; the second quarter deals with historical geology from the stratigraphic standpoint; and the third quarter with historical geology from the paleontologic viewpoint. *Three lecture and four laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50.* Professors Prouty, Huddle; Messrs. Edwards, Clair.

107 (122). STRUCTURAL GEOLOGY (5). Prerequisite, Geology 103, Physics 21-22-23 or 24-25.

A general course in geologic structure and its relation to exploratory geology. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $3.50.* Professor Prouty.

108 (111). ECONOMIC GEOLOGY (5). Prerequisite, Geology 107.

Principles of ore formation, including both metallic and non-metallic minerals. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $3.50.* Professor Prouty.

109 (105). ELEMENTS OF GEOPHYSICS (5). Prerequisite, Geology 107, Mathematics 3, Physics 21-22-23 or 24-25.

The fundamental principles of geophysics and their application to practical problems. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professor ....; Mr. McCampbell.

121 (156). GEOMORPHOLOGY (5). Prerequisite, Geology 21-22-23 or 41-42.

Lectures, field work, and laboratory work, dealing in detail with physiographic processes and their results; geomorphology. An extended field study is required in this course. *Five hours a week, lectures and laboratory, spring quarter. Laboratory fee, $2.00.* Professors Irwin, Erickson.

128-129 (48-49). SUMMER FIELD COURSE IN GEOLOGY (10). Prerequisite, Geology 101, 102, 103.

A six weeks' course to be given in North Carolina and bordering states. This course will coincide with the scheduled six weeks' summer-school course. It may also be taken on the transcontinental tour. *Equivalent to five hours a week for two quarters.* Professors Prouty, Huddle.

144-145 (134, 135). PETROGRAPHY (10). Prerequisite, Geology 101, 102.

Introduction to optical mineralogy and the use of the polarizing microscope in the identification of minerals in thin section and crushed fragments; microscopic study of rocks. *Three lecture and four laboratory hours a week, fall and spring quarters. Laboratory fee, $3.50 a quarter.* Professor Irwin.

147 (44). DETERMINATIVE MINERALOGY (5). Prerequisite, Geology 101.

The determination of metallic and non-metallic minerals, chiefly by blowpipe analysis. *Two lecture and six laboratory hours a week, winter quarter. Laboratory fee, $7.00.* Professor Irwin; Mr. Bloomer.

161 (45). METEOROLOGY (5).

A study of the atmosphere and the factors controlling the weather; the making and interpretation of weather maps; weather forecasting. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $2.50.* Professor Erickson; Mr. Edwards.

168, 169 (106, 107). FIELD WORK IN GEOPHYSICS (5 each). Prerequisite, Geology 109, Physics 21-22-23 or 24-25.

Practical application of the magnetometer and of electrical methods to field problems. *Summer and on application.* Professor ....; Mr. McCampbell.

Courses for Graduates

221, 222, 223 (141-142-143). ADVANCED STRUCTURAL GEOLOGY (5 each). Prerequisite, Geology 104, 105, 106, 107.

A general study of the more important earth structures and a detailed structural study of a number of well-known areas in this and other countries. *Four lecture and two laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $2.50 each quarter.* (1940-1941 and alternate years.) Professor Prouty.

224, 225, 226 (112, 113, 114). ADVANCED ECONOMIC GEOLOGY (5 each).

A study of the more important metallic and non-metallic mineral deposits of the world with greater emphasis on those of North America. *Four lecture and two laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $2.50 each quarter.* (1941-1942 and alternate years.) Professor Prouty.

227 (123). OIL GEOLOGY (5). Prerequisite, Geology 104, 105, 107.

A study of the origin, distribution, and accumulation of petroleum, with special relation to the oil fields of North America; methods of prospecting oil, recovery of oil, the valuation of oil properties. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.50.* Professors Prouty, Huddle.

228-229. ADVANCED FIELD GEOLOGY (10). Prerequisite, Geology 128-129.

Special field problems are worked out under the guidance of the instructor. *Equivalent to five hours a week for two quarters.* Professors Prouty, Huddle, Irwin.

241, 242, 243. ADVANCED MINERALOGY (5 each). Prerequisite, Geology 144, 145, except by permission.

Fall quarter: a study of the geometrical form and classification of natural and artificial crystals; crystal drawing; modern developments in the x-ray study of crystalline substances. Winter and spring quarters: a study of an assigned crystallized substance, either natural or artificial, with the view of (1) determining and correlating its optical, crystallographic, and chemical properties or (2) developing and perfecting mineralogical technique. *Two lecture and six laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50 each quarter.* Professor Irwin.

244, 245, 246. ADVANCED PETROLOGY (5 each). Prerequisite, Geology 144-145.

A study of the microscopic structure, mineral composition, and genetic relations of the igneous, sedimentary, and metamorphic rocks; criteria by which rock types and processes are recognized. *Two lecture and six laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50 each quarter.* Professor Irwin.

261, 262, 263. APPLIED GEOPHYSICS (5 each). Prerequisite, Geology 109; Mathematics through Calculus.

A survey of geophysical methods used for the detection of ore deposits, oil, etc.; a description of geophysical instruments and their use; actual geophysical surveys of selected areas near Chapel Hill. *Three lecture and four laboratory hours a week, fall, winter, and spring quarters.* Professor ....; Assistant.

281, 282, 283. STRATIGRAPHY OF NORTH AMERICA (5 each). Prerequisite, Geology 104, 105, 106.

The first quarter deals with principles of stratigraphy and pre-Cambrian stratigraphy; this is followed by Paleozoic, Mesozoic, and Cenozoic stratigraphy in the second and third quarters. *Five hours a week, fall, winter, and spring quarters.* (1940-1941 and alternate years.) Professor Huddle.

284. PRINCIPLES OF PALEONTOLOGY (5). Prerequisite, Zoology 41 or Botany 41, Geology 106.

A graduate course in evolution and taxonomic procedure. *Five hours a week.* Professor Huddle.

285, 286 (172, 173). ADVANCED PALEONTOLOGY (5 each). Prerequisite, Geology 284.

Intensive work on a particular phyllum or class. Professor Huddle.

287 (174). FORAMINIFERA (5). Prerequisite, Geology 106.

A study of the classification and use of foraminifera. *Two lecture and six laboratory hours a week. One quarter, on application.* Professor Huddle.

288, 289 (175-176). MICROPALEONTOLOGY (5 each). Prerequisite, Geology 287.

Advanced work in micropaleontology. *Equivalent to five hours a week, each quarter. On application.* Professor Huddle.

RESEARCH COURSES

These courses are intended for applicants for advanced degrees. Laboratory work and conferences with the Professor in charge of the work. Work in each of these courses may be continued under the same number with sub-letter designations.

321. RESEARCH IN STRUCTURAL GEOLOGY (5 or more). Professor Prouty.

329. RESEARCH IN ECONOMIC GEOLOGY (5 or more). Professor Prouty.

341. RESEARCH IN MINERALOGY (5 or more). Professor Irwin.

349. RESEARCH IN PETROLOGY (5 or more). Professor Irwin.

361. RESEARCH IN GEOPHYSICS (5 or more). Professor ....

381. RESEARCH IN STRATIGRAPHY (5 or more). Professor Huddle.

389. RESEARCH IN PALEONTOLOGY (5 or more). Professor Huddle.

*GEOGRAPHY

Courses for Undergraduates

3c. (Natural Science 3c). GEOGRAPHY FOR COMMERCE STUDENTS (4). Freshman requirement for those expecting to go into the School of Commerce.

Elements of geography with emphasis on: place location, the basic principles accounting for climates and man's activities peculiar to the important climatic regions, a brief survey of earth materials for an understanding of the location and occurrence of important natural resources, a summary indicating the influence of these elements on present economic life. *Three lecture and two laboratory hours a week, each quarter. Laboratory fee, $2.00.* Professors Emory, Erickson.

31-32-33 (15, 51, 52). INTRODUCTION TO GEOGRAPHY (12).

An introductory course primarily for freshmen and sophomores. The first quarter is a regional study of the principles underlying the climate, relief, native vegetation, soils, and distribution of minerals and metals of the world; the second quarter deals with the geographical distribution of agricultural products; and the third quarter, with the distribution of minerals, metals, and manufacturing. *Three lecture and two laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $2.00.* Professors Emory, Erickson.

74 (14). GEOGRAPHY FOR TEACHERS (3).

A course designed to acquaint teachers with the fundamentals of geography. The most important factors of the physical environment are studied in their relationship to human activities. *Three hours a week, winter quarter.* Professors Emory, Erickson.

Courses for Graduates and Advanced Undergraduates

117. SOILS (5). Prerequisite, Introductory Geology.

A general study of the origin of soil material, the factors affecting soil formation and the nature, classification, and distribution of soils. Field trips will be conducted to study the distribution and types of soil in North Carolina. *Five hours a week, winter quarter. Laboratory fee, $2.50.* Professor Erickson.

118. SOIL EROSION AND LAND UTILIZATION MAPPING (5). Prerequisite, Geography 117.

The first half of this course is designed to deal with the factors of soil erosion and some methods of soil control. This will be followed by methods of land utilization mapping with the purpose of relating land use to the types of soil. *Five hours a week, spring quarter. Laboratory fee, $2.50.* Professor Erickson.

153 (53). POLITICAL GEOGRAPHY (5).

The course deals with geographic factors affecting international relations. *Equivalent of five hours a week, fall quarter. Laboratory fee, $2.50.* Professors Emory, Erickson.

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* For A.B. with major in Geography, there are required, in addition to Geography 31-32-33, and Geology 21-22-23 or 41-42, six courses in Geography and Geology and six courses in allied studies, selected with the approval of the Head of the Department of Geology and Geography. Six courses must be taken outside of the Division of Natural Sciences. Geography 31-32-33 is recommended as preparation for all advanced Geography courses.

154 (60). GEOGRAPHICAL INFLUENCES IN AMERICAN HISTORY (5).

A chronological study of the influence of geographical factors on the development of North America, with particular emphasis on the United States. *Five hours a week, spring quarter.* Professor Emory.

155. CLIMATOLOGY (5). Prerequisite, Geography 31-32-33.

A course dealing with the essential facts of weather and climate, the climatic regions of the earth, world distribution of temperatures, winds, and precipitation. Various classifications of climates will be presented with the purpose of giving a better understanding of the climatic factor in man's environment. *Five hours a week, fall quarter.* (1940-1941 and alternate years.) Professor Erickson.

156. CONSERVATION OF NATURAL RESOURCES (5).

A general study of natural resources, including soils, forests, water supply, minerals, and metals; waste of natural resources and methods of resource conservation: and problems involved in the establishment of policies of conservation. *Five hours a week, fall quarter.* (1941-1942 and alternate years.) Professor Erickson.

157 (57). GEOGRAPHY OF NORTH AMERICA (5).

This course deals with the physical features, soils, minerals, climatic resources, and transportation facilities of North America. *Five hours a week, reading and reports, winter quarter.* Professors Emory, Erickson.

158 (58). GEOGRAPHY OF EUROPE (5).

A study of the physical, economic, political, and social conditions of Europe. *Five hours a week, spring quarter.* (1940-1941 and alternate years.) Professor Erickson.

159 (59). GEOGRAPHY OF SOUTH AMERICA (5).

A study of the physical, economic, and social conditions of South America, showing the present and future possibilities of the various regions and countries. *Five hours a week, spring quarter.* (1941-1942 and alternate years.) Professor Erickson.

178, 179. FIELD COURSE IN GEOGRAPHY. Prerequisite, Geography 31-32-33, Geology 21-22-23 or 41-42.

For information on this work the interested student should consult the Department.

Courses for Graduates

211 (141). SPECIAL WORK IN GEOGRAPHY (5 or more). Prerequisite, Geography 31-32-33 and two courses in the one hundred bracket.

Special problems in geography, adapted to the needs of individual students. *Five hours a week, fall, winter, and spring quarters.* Professors Erickson, Emory.

311. RESEARCH IN GEOGRAPHY (5 or more).

Professors Emory, Erickson.

*DEPARTMENT OF GERMANIC LANGUAGES

Professors: RICHARD JENTE, K. J. BROWN.
Associate Professor: G. S. LANE.
Assistant Professors: W. P. FRIEDERICH, F. E. COENEN.
Teaching Fellow: A. L. LANCASTER.
Assistants: A. W. BEERBAUM, J. C. CORNETTE, H. GORDON, R. B. NANCE, J. B. READ.

Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE GERMAN (**9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate German (11-12-13). The completion of this work gives credit for Intermediate German. *Six hours a week, through the year.* Messrs. Beerbaum, Cornette, Gordon, Lancaster, Nance, Read.

11-12-13. INTERMEDIATE GERMAN (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and sophomore elective. *Three hours a week, through the year.* Professors Jente, Coenen.

14-15-16. BEGINNING GERMAN FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially well qualified for such study. Sophomore elective. *Three hours a week, through the year.* Professor Lane.

21a-22a. INTRODUCTION TO GERMAN LITERATURE (10). Prerequisite, German 1-2-3 or 11-12-13 or the equivalent.

Survey of German literature from the Classical period to modern times with selected readings from respresentative authors. Sophomore elective. *Five hours a week, each part every quarter.* Professors Jente, Brown, Friederich, Coenen.

24a-25a. SCIENTIFIC GERMAN (10). Prerequisite, 1-2-3 or 11-12-13 or equivalent.

Open only to students with majors in a science. *Five hours a week, each course, every quarter.* Professors Coenen, Friederich.

Courses for Graduates and Advanced Undergraduates

101-102-103 (51). WRITING AND SPEAKING GERMAN; PHONETICS (9). Prerequisite, German 23, or by special permission. *Three hours a week, through the year.* Professor Coenen.

109. GERMAN PROSE IN THE NINETEENTH CENTURY (5). Prerequisite, German 23.

Five hours a week, winter quarter. Professor Coenen.

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[*] Students are requested to consult with the departmental adviser in regard to the requirements for a major in German.

[**] No credit is allowed towards a degree for the elementary portion of this course. Tuition is charged, however, for *six hours* each quarter, the actual time devoted to the work.

111. GERMAN DRAMA IN THE NINETEENTH CENTURY (5). Prerequisite, German 23.

Kleist, Grillparzer, Hebbel, Ludwig, Hauptmann. Readings, lectures, reports. *Five hours a week, spring quarter.* Professor Brown.

115. THE GERMAN LYRIC FROM GOETHE TO THE PRESENT (5). Prerequisite, German 23.

Five hours a week, fall quarter. Professor Jente.

121-122 (101-102). GOETHE (10). Prerequisite, German 23.

Study of his life. Reading and interpretation of representative works. Lectures and reports. *Five hours a week, fall and winter quarters.* Professor Brown.

123. FAUST (5). Prerequisite, German 23.

Goethe: *Faust,* Parts I and II. *Five hours a week, spring quarter.* Professor Brown.

131. LESSING AND HIS TIME (5). Prerequisite, German 23.

New trends in German literature from 1700 to 1780. French and English influences. Wieland, Klopstock, Herder. Lectures, translation, and reports. *Five hours a week, spring quarter.* Professor Friederich.

141 (132). SCHILLER (5). Prerequisite, German 23.

Study of Schiller's life and works with emphasis on his historical dramas. Lectures, translation, and reports. *Five hours a week, spring quarter.* Professor Jente.

151. CONTEMPORARY GERMAN LITERATURE (1885-1930) (5). Prerequisite, German 23.

A study of German literature from Naturalism to recent times. Lectures, readings, and reports. *Five hours a week, winter quarter.* Professor Jente.

155. GOETHE IN ENGLISH TRANSLATION (5). (For description see General and Comparative Literature 155.)

Five hours a week, spring quarter. Professor Jente.

161. HISTORY OF THE GERMAN LANGUAGE (5). Prerequisite, a good reading knowledge of German.

Five hours a week, fall quarter. Professor Lane.

171 (61). GERMAN CIVILIZATION (5). Prerequisite, German 101-102-103.

Lectures on German geography, history, institutions, art, music, and customs. All lectures, discussions, and reports are in German. *Five hours a week, winter quarter.* Professor Friederich.

Courses for Graduates

221. GOTHIC (5).
Five hours a week, fall quarter. Professor Lane.

222. OLD AND MIDDLE HIGH GERMAN GRAMMAR (5).
Five hours a week, winter quarter. Professor Lane.

223. COMPARATIVE GERMANIC GRAMMAR (5).
Five hours a week, spring quarter. Professor Lane.

232 (225). OLD SAXON (5).
Five hours a week, winter quarter. Professor Lane.

233. OLD NORSE (5).
Five hours a week, spring quarter. Professor Lane.

235-236 (208). MIDDLE HIGH GERMAN (10).
Rapid reading of Middle High German lyrics and epics. *Five hours a week, winter and spring quarters.* Professor Jente.

240. READING COURSE (9).
Designed to give graduate students the background of a survey of German literature. Extensive outside reading. Reports and short connecting lectures. *One lecture hour a week, through the year.* Professor Friederich.

241 (211). THE ROMANTIC SCHOOL IN GERMANY (5).
Five hours a week, spring quarter. Professor Brown.

252-253 (112). LATE MEDIEVAL, RENAISSANCE, AND BAROQUE LITREATURE IN GERMANY (10).
German literature and its cultural background from 1400 to 1700. Extensive outside reading and reports. (1940-1941 and alternate years.) *Five hours a week, fall and winter quarters.* Professor Friederich.

341-342-343. SEMINAR IN LITERATURE (9).
Three hours a week through the year. Professors Brown, Jente.

361-362-363. SEMINAR IN LINGUISTICS (9).
The subject matter will be determined by the needs of the students. *Three hours a week, through the year.* Professor Lane.

395. RESEARCH (5).
Research in a special field under the direction of a member of the Department.

*DEPARTMENT OF HISTORY

Professors: A. R. Newsome, H. M. Wagstaff, W. W. Pierson, M. B. Garrett, W. E. Caldwell, L. C. MacKinney, H. T. Lefler, **F. M. Green, ***H. K. Beale.

Associate Professor: J. C. Russell.

Assistant Professors: Cecil Johnson, C. H. Pegg, J. C. Sitterson.

Instructors: J. L. Godfrey, George E. Mowry, E. A. Hammond.

Teaching Fellows: Adolf Meisen, William H. Price, James M. Grimes.

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* A student choosing History as his department of major interest must elect either American history or European history as his field of specialization and complete a minimum of six approved courses of advanced level. The requirement for the major in American history shall be eight approved courses of advanced level, if the student has not completed History 21-22-23 or History 71-72 with a minimal grade of B; and for a major in European history a like number (eight) if the student has not completed History 41-42, History 44-45-46, or History 48, 49, with a minimal grade of B. The student must take at least four of his six or five of his eight courses from his field of specialization; he may elect the remaining courses of his major from the other field. All history courses numbered above 50, except History 71-72, may be credited toward the major.

Those students who plan to teach in public high schools should read the footnote on p. 178.

Students wishing to read for Honors in History should consult the regulations governing the honors program in the Division of Humanities and Social Sciences on page 115, and also confer with the head of the department.

** Absent on leave, fall quarter, 1939.

*** Absent on leave, spring quarter, 1940.

Courses for Undergraduates

1-2-3. SOCIAL SCIENCE (9). Freshman requirement.

A survey of the chief factors in Western Civilization, designed to throw light on the institutions, ideas, and problems of the present. Prerequisite to all other history courses. Fee for materials, $1.00 each quarter. *Three hours a week, throughout the year.* Professors Russell, Johnson, Pegg, Sitterson; Messrs. Godfrey, Mowry, Hammond; Professors Wager (Political Science); Buchanan (Economics); Messrs. Dugan and Lerche (Political Science); Lovejoy (Sociology).

20. AMERICAN BIOGRAPHY (5). Freshman or sophomore elective.

Five hours a week, spring quarter. Professor Green.

21-22-23. AMERICAN HISTORY: GENERAL COURSE (9). Sophomore elective. A survey course of American history from early colonial times to the present. *Three hours a week, throughout the year.* Professors Green, Beale, Sitterson.

41-42. ANCIENT AND MEDIEVAL HISTORY: GENERAL COURSE (10). Sophomore elective, open to juniors and seniors.

The history of civilization from its beginnings to 1500 A.D. The first half is devoted to the Orient, Greece, and Rome to the time of Constantine; the second half, to Western Europe from the time of Rome's decline to the age of the Renaissance and Reformation. *Five hours a week, winter and spring quarters.* Professors Caldwell, MacKinney.

44-45-46. ENGLISH HISTORY: GENERAL COURSE (9). Sophomore elective, open to juniors and seniors.

A survey course in British history from early times to the present. *Three hours a week, throughout the year.* Professor Wagstaff.

48. MODERN EUROPEAN HISTORY, 1500-1815 (5). Sophomore elective, open to juniors and seniors.

A general course dealing with fundamental factors in European civilization; commercial revolution, Protestant Revolt, dynastic rivalries, ancient regime, French Revolution. *Five hours a week, spring quarter.* Professor Garrett.

49. MODERN EUROPEAN HISTORY SINCE 1815 (5). Sophomore elective, open to juniors and seniors.

A general course dealing with fundamental factors in European civilization: industrial revolution, democracy, nationalism, socialism, World War. *Five hours a week, fall quarter.* Professor Garrett.

51. THE ORIENT AND EARLY GREECE (5).

The history of the Bronze Age in the Mediterranean, and of civilization in Egypt, Babylonia, Syria and Palestine, and Crete to the time of the Persian Empire. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Caldwell.

52. GREECE: THE CLASSICAL PERIOD (5).

A history of the classical period of ancient Greece with particular attention to the growth of democracy, and to social, economic, artistic, literary, and religious developments. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Caldwell.

53. HELLENISTIC GREECE AND THE ROMAN REPUBLIC (5).

A survey of the Greek world in the post-Alexandrian epoch and the history of Rome to the death of Caesar. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Caldwell.

54. THE ROMAN EMPIRE (5).

The history of Rome from Augustus to Constantine—organization and administration; social, economic, and religious developments; the decline of ancient culture; and the rise of Christianity. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Caldwell.

64. EARLY MEDIEVAL EUROPE: THE "DARK" AGES, 300-1000 (5).

The evolution of medieval civilization; declining Rome, victorious Christianity, and migrating Germanic peoples; the rise and disintegration of the empire of Charles the Great. Government, religion, and culture during the "Dark" Ages. *Five hours a week, fall quarter.* Professor MacKinney.

65. EUROPE IN THE CRUSADING AGE, 1000-1300 (5).

The expansion of Europe in the Crusades; the struggle between Church and State; the rise of national monarchies and culture. *Five hours a week, winter quarter.* Professor MacKinney.

71-72. AMERICAN HISTORY: GENERAL COURSE (10). Not credited towards a major. Junior-senior elective.

A general survey of the history of the United States. Both 21-22-23 and 71-72 may not be taken for credit by a student. *Five hours a week, winter and spring quarters.* Professor Lefler.

91. HISPANIC-AMERICAN COUNTRIES DURING THE NATIONAL PERIOD (5).

A general course concerned with the political, social, economic, and cultural history of these countries from independence to the present time. *Five hours a week, spring quarter.* Professor Pierson.

Courses for Graduates and Advanced Undergraduates

121. MEDIEVAL CULTURAL LIFE (5).

An intensive study of the classical cultural heritage and of the evolution of culture during the Middle Ages. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor MacKinney.

122. SOCIAL-ECONOMIC HISTORY OF THE MIDDLE AGES (5).

An intensive study of the social and economic life of the Middle Ages. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor MacKinney.

123. SPANISH CIVILIZATION (5).

The background and rise of medieval Spanish civilization; its climax in the age of Ferdinand, Isabella, Charles I, and Philip II; modern Spanish nationalism and radicalism. *Five hours a week, winter quarter.* Professor MacKinney.

124. THE AGE OF THE RENAISSANCE, 1250-1550 (5).

The evolution of modern civilization in Italy; the blending of medieval and classical elements; the political and economic background; the rise of vernacular literatures; the arts; literature; humanism; education; discovery and invention. *Five hours a week, spring quarter.* Professor MacKinney.

131. THE PROTESTANT REVOLT (5).

Europe in the Sixteenth Century. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Garrett.

132. THE RISE OF ABSOLUTISM IN EUROPE (5).

Europe in the Seventeenth Century. *Five hours a week, winter quarter.* Professor Garrett.

133. THE FRENCH REVOLUTION AND THE NAPOLEONIC PERIOD (5).

An intensive study of the causes, events, and results of the French Revolution and the Napoleonic period. *Five hours a week, spring quarter.* Professor Garrett.

134. RISE OF DEMOCRACY AND NATIONALISM IN MODERN EUROPE (5).

Europe from 1815 to 1870. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Garrett.

135. THE WORLD WAR AND ITS BACKGROUND (5).

Europe from 1870 to 1918. *Five hours a week, winter quarter.* Professor Garrett.

136. RECENT AND CONTEMPORARY EUROPEAN HISTORY (5).

Europe from 1918 to the present. *Five hours a week, spring quarter.* Professor Pegg.

137. ENGLAND TO 1603 (5).

The development of English society based upon an intensive study of the sources and literature of selected topics. Emphasis will be upon social and political history in 1940 and upon intellectual history in 1941. *Five hours a week, spring quarter.* Professor Russell.

138. ENGLAND FROM 1603 TO 1760 (5).

The national development and expansion of the British state during the period covered. *Five hours a week, fall quarter.* Professor Wagstaff.

139. GREAT BRITAIN FROM 1760 TO THE WORLD WAR (5).

Evolution of the British state as shaped by modern forces. *Five hours a week, winter quarter.* Professor Wagstaff.

143. DIPLOMATIC HISTORY OF THE UNITED STATES, 1776-1939 (5).

A study of American foreign relations with emphasis upon the historical development of present foreign policies and the social and economic forces at home and abroad which led to their adoption. *Five hours a week, winter quarter.* Professor Johnson.

145. STUDIES IN AMERICAN CULTURAL HISTORY, 1492-1860 (5).

The course will deal with cultural trends, the early development of significant American ideas and social attitudes, and the growth of national characteristics and the relation of these to the social and economic background in which they grow. Emphasis will be placed upon such things as migrations of people and ideas; contributions of foreign cultures, geographic environment, the frontier, religion, Puritanism, humanitarianism, and women; the growth of nationalism; and the ideal of cultural independence. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Beale.

146. STUDIES IN AMERICAN CULTURAL HISTORY, 1860-1937 (5).

The course will deal with the historical background of contemporary American culture, ideas, social attitudes, and national characteristics, with emphasis upon the contributions of such groups as Negroes, foreigners, and women, migration of ideas, and the influence of industrialism, of science, of religion, and of the ideals of progress, individualism, and social responsibility. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Beale.

149. THE AMERICAN COLONIES, 1606-1689 (5).

A survey of European backgrounds; and a study of the founding and development of England's continental colonies and of their relations to each other and to the British Empire. *Five hours a week, fall quarter.* Professor Lefler.

150. THE AMERICAN COLONIES, 1689-1783 (5).

A study of the political, social, economic, and cultural history of the colonies from 1689 through the American Revolution. *Five hours a week, winter quarter.* Professor Lefler.

151. THE FEDERAL PERIOD, 1783-1815 (5).

A study of the Articles of Confederation, the formation and adoption of the Federal Constitution, the launching of the government, Jeffersonian democracy, and the Second War for American Independence. *Five hours a week, fall quarter.* Professor Newsome.

152. THE ANTE-BELLUM PERIOD, 1815-1860 (5).

A study of the westward movement, Jacksonian democracy, nationalism and expansion, state rights and sectionalism, controversy over Negro slavery, and causes of the War for Southern Independence. *Five hours a week, spring quarter.* Professor Newsome.

154. CIVIL WAR AND RECONSTRUCTION (5).

The important constitutional, political, social, and economic aspects of the Civil War and Reconstruction in the United States. *Five hours a week, fall quarter.* Professor Beale.

155. RECENT HISTORY OF THE UNITED STATES, 1877-1901 (5).

A study of the transformation of America from a rural society "isolated" from world affairs into a highly industrialized world power, with emphasis on the economic, social, constitutional, ideological, and cultural changes that caused or grew out of this tradition. *Five hours a week, winter quarter.* Professor Beale.

156. RECENT AMERICAN HISTORY, 1901-1937 (5).

The course deals with the political, constitutional, economic, social, and intellectual problems of the newly industrialized nation, and with the history of the foreign relations of the United States as a world power. *Five hours a week, spring quarter.* Professor Beale.

161. NORTH CAROLINA, 1584-1815 (5).

A survey of the political, social, economic, and cultural development of North Carolina from the first settlement until 1815. *Five hours a week, fall quarter.* Professor Lefler.

162. NORTH CAROLINA, 1815-1936 (5).

A survey of political, economic, social, and cultural developments in North Carolina since 1815. *Five hours a week, winter quarter.* Professor Newsome.

163. THE SOUTH, 1789-1860 (5).

A course dealing with the Southern States, with emphasis upon social, economic, and cultural life. *Five hours a week, fall quarter.* Professor Green.

164. THE SOUTH, 1877-1936 (5).

The course deals with the political, economic, social, and intellectual development of the South since the close of Reconstruction. *Five hours a week, winter quarter.* Professor Green.

165. HISTORY OF THE WEST TO 1815 (5).

A study of the westward movement and of frontier civilization in the area now comprising the United States from the time of exploration and settlement to 1815. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Newsome.

166. HISTORY OF THE WEST SINCE 1815 (5).

A study of the westward movement and of frontier civilization in the United States from 1815 to the opening of the twentieth century. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Newsome.

167. ECONOMIC HISTORY OF THE UNITED STATES, 1783-1860 (5).

A study of agriculture, transportation, commerce, manufacturing and similar aspects of American history, 1783-1860, and of the influence of economic factors upon social and political life. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Lefler.

168. ECONOMIC HISTORY OF THE UNITED STATES, 1860-1925 (5).

A particular effort will be made to show the effects upon American life of the great economic revolution which has occurred since the Civil War. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Lefler.

170. SOCIAL AND EDUCATIONAL HISTORY OF THE UNITED STATES (Education 143) (5).

A study of the evolution of social and educational institutions and practices in the United States. *Five hours a week, fall quarter.* Professor Knight (of the Department of Education).

Course for Graduates

201ab. HISTORIOGRAPHY (6).

Lectures, conferences, readings, and reports. The course will be concerned with methods of research, schools of interpretation, the interrelation of history with the other social sciences, and the history and bibliography of American and European history. Required of all graduate students in history. *Three hours a week, fall and winter quarters.* Professors Caldwell, Newsome.

206. GREEK HISTORY, 500-146 B.C. (5).

A critical study of the sources, literature, and problems of Greek history in the classical and Hellenistic periods. *Five hours a week, fall quarter.* Professor Caldwell.

207. ROMAN HISTORY, 133-31 B.C. (5).

A critical study of the sources, literature, and problems of the period of the Roman Revolution. *Five hours a week, winter quarter.* Professor Caldwell.

208. ROMAN HISTORY, 31 B.C.-180 A.D. (5).

A critical study of the sources, literature, and problems of the Age of Augustus and the Great Age of the Roman Empire. *Five hours a week, spring quarter.* Professor Caldwell.

220. PRELIMINARIES OF THE AMERICAN REVOLUTION (5).

A study of the background and causes of the American Revolution. Lectures and reports. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor ....

221. THE WAR OF AMERICAN INDEPENDENCE (5).

A study of its political, social, and economic aspects. Lectures, readings, and reports. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor ....

261. STUDIES IN THE SOUTH, 1820-1865 (5).

An intensive study of the political system of the Old South, the rise of Southern nationalism, and the Southern Confederacy. *Five hours a week, spring quarter.* Professor Green.

271. HISPANIC-AMERICAN HISTORY: The Colonial Period and the Wars of Independence (5).

A study of the transportation of Hispanic civilization in language, customs, religion, trade, and political institutions; Indian relations, labor and social conditions; education and industry; the causes and events of the struggles for independence. (1941-1942 and every third year.) *Five hours a week, winter quarter.* Professor Pierson.

272. HISPANIC-AMERICAN HISTORY: Development of Nationality in South America (5).

The modern history of Argentina, Brazil, Chile, Uruguay, Paraguay, Peru, Bolivia, and Ecuador. Attention will be directed to the evolution of their political theory, the struggle for political stability, the exploitation of resources, the diplomatic and commercial relations with the United States and Europe, the international problems of South America, the contemporary progress in politics and society. (1940-1941 and every third year.) *Five hours a week, winter quarter.* Professor Pierson.

273. HISPANIC-AMERICAN HISTORY: Hispanic North America and the Caribbean Countries (5).

Emphasis in this course will be placed upon the same general factors as in History 272. (1942-1943 and every third year.) *Five hours a week, winter quarter.* Professor Pierson.

301abc. ANCIENT HISTORY (9).

A seminar in some phase of ancient history. *Conference, one hour a week, fall, winter, and spring quarters.* Professor Caldwell.

311abc. MEDIEVAL HISTORY (9).

A seminar in some phase of medieval history. *Conference one hour a week, fall, winter, and spring quarters.* Professor MacKinney.

321abc. MODERN EUROPEAN HISTORY (9).

A seminar in some phase of the French Revolution. *Conference, one hour a week, fall, winter, and spring quarters.* Professor Garrett.

323abc. ENGLISH HISTORY (9).

A seminar in some selected phase. *Conference and reports, one hour a week, fall, winter, and spring quarters.* Professor Wagstaff.

331abc. AMERICAN COLONIAL HISTORY (9).

A seminar in some selected phase of the period. *Conference, one hour a week, fall, winter, and spring quarters.* Professor Lefler.

333abc. HISTORY OF THE UNITED STATES, 1783-1860 (9).

A seminar in some phase of the history of the United States, 1783-1860. *Conference, one hour a week, fall, winter, and spring quarters.* Professor Newsome.

335abc. HISTORY OF THE SOUTH (9).

A seminar in some phase of the history of the South. *Conference, one hour a week, fall, winter, and spring quarters.* Professor Green.

337abc. RECENT UNITED STATES (9).

A seminar in some phase of the history of the United States since 1876. *Conference, one hour a week, fall, winter, and spring quarters.* Professor Beale.

341. SEMINAR COURSE (5).

A research course in a special field under the direction of a member of the department.

370abc. HISPANIC-AMERICAN HISTORY (9).

A seminar in some selected phase. *Conference and reports, one hour a week, fall, winter, and spring quarters.* Professor Pierson.

DEPARTMENT OF JOURNALISM

Professors: O. J. COFFIN, C. P. RUSSELL.
Assistant Professor: WALTER SPEARMAN.

30. COLLEGE REPORTING (3 or 5).

A course with a maximum credit of five quarter hours for reporting done on the student daily under the supervision of the Department of Journalism.

31. COLLEGE EDITING (3 or 5).

A similar credit course for those who do the editorial work of the student newspaper.

53. NEWS WRITING I (5).

A course in elementary news writing devoted to practical work in the classroom. Prerequisite for Journalism 54. *Five hours a week, fall quarter. Laboratory fee, $2.00.* Professors Coffin, Spearman.

54. NEWS WRITING II (5). Prerequisite, Journalism 53 or the equivalent.

A continuation of the work in Journalism 53, with the addition of some copy-reading. Prerequisite for Journalism 55. *Five hours a week, winter quarter. Laboratory fee, $2.00.* Professors Coffin, Spearman.

55. NEWS WRITING III (5). Prerequisite, Journalism 53 and 54.

A continuation of Journalism 54, with more emphasis on assignments. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professors Coffin, Spearman.

56abc. FEATURE WRITING (3 each quarter).

A course for advanced students in the production of feature stories and feature articles, with a view to making them marketable. Any third may be taken independently. *Three hours a week, fall, winter, and spring quarters.* Professors Coffin, Russell.

57. NEWS METHODS AND TREATMENTS (3).

A study of contemporary newspapers and of prevailing methods of handling news. Desk work. *Three hours a week, fall quarter. Laboratory fee, $2.00.* Professors Coffin, Spearman.

58. EDITORIAL WRITING (3).

Comparative examination of policies and relations. Practical exercises. *Three hours a week, spring quarter.* Professor Russell.

59. WEEKLY NEWSPAPER EDITING (3).

A study of the functions of the weekly newspaper, with practical instruction in meeting the problems of the neighborhood news medium. *Three hours a week, winter or spring quarter.* Professor Coffin.

60. BOOK REVIEWING AND DRAMATIC CRITICISM FOR NEWSPAPERS (3).

A course in book reviewing and covering plays and motion pictures from the newspaper point of view. *Three hours a week, winter quarter.* Professors Spearman, Russell.

61. HISTORY OF JOURNALISM (3).

A study of the chief forces and personalities that have contributed to the development of American newspapers, particularly in modern times; principles and ethics of journalism; law of the press. *Three hours a week, fall quarter.* Professor Russell.

DEPARTMENT OF LIBRARY SCIENCE

Professors: SUSAN GREY AKERS, CARL M. WHITE.
Associate Professor: LUCILE KELLING.
Special Lecturer: EMILY BIDDLE MEIGS.

Courses for Undergraduates

These courses may be taken by advanced undergraduates in the College of Arts and Sciences with the approval of the Director of the School of Library Science.

111. REFERENCE AND BIBLIOGRAPHY (5).
Five hours a week, fall quarter. Professor Kelling.

121. PRINCIPLES OF BOOK SELECTION (5).
Five hours a week, fall quarter. Miss Meigs.

122. BOOK SELECTION FOR HIGH SCHOOL LIBRARIES (5).
Five hours a week, winter quarter. Miss Meigs.

123. BOOK SELECTION FOR CHILDREN'S LIBRARIES (5).
Five hours a week, spring quarter. Miss Meigs.

151. HISTORY OF BOOKS AND LIBRARIES (5).
Five hours a week, spring quarter. Professor White.

*DEPARTMENT OF MATHEMATICS

Professors: ARCHIBALD HENDERSON, T. F. HICKERSON, J. W. LASLEY, JR., A. W. HOBBS, E. T. BROWNE, E. L. MACKIE, J. B. LINKER.
Associate Professors: A. S. WINSOR, R. M. TRIMBLE, M. A. HILL, V. A. HOYLE.
Assistant Professors: L. L. GARNER, E. A. CAMERON, NATHAN JACOBSON, WITOLD HUREWICZ.
Teaching Fellows: E. S. ASHCRAFT, R. J. WELLS.
Assistants: R. E. SMITH, J. O. REYNOLDS.

Courses for Undergraduates

†1-2-3. INTRODUCTORY MATHEMATICS (9).

A systematic development of the notion of functions. First the algebraic functions, including the linear function, the quadratic function, and functions of higher degree, an account of associated equations and geometric loci, the rate of change of a function, functions changing at a given rate. Then transcendental functions, including the logarithmic and exponential functions with their rates of change and associated problems. Finally the trigonometric functions and their application to the solution of triangles. *Three hours a week for the year.* Professors Hickerson, Lasley, Hobbs, Browne, Mackie, Linker, Winsor, Munch, Trimble, Hill, Hoyle, Garner, Cameron, Jacobson, Hurewicz; Messrs. Ashcraft, Wells, Smith, Reynolds.

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* For the degree of A.B. with major in Mathematics there are required:

I. From thirty (30) to forty-five (45) quarter hours consisting of

(a) Fifteen (15) quarter hours, Mathematics 31-32-33, (or 21-22-23, 36).

(b) From fifteen (15) to thirty (30) quarter hours from Mathematics 41, 42, 51, 52, 103, 104, 105, 111, 121, 122, 123, 131**, 141**, 151**, 152**, 161**, 171**, at least five (5) quarter hours of which must be taken from the courses marked "**" above.

II. Thirty (30) to thirty-six (36) quarter hours from the departments of Botany, Chemistry, Geology, Philosophy, Physics, Psychology, Zoology.

III. Thirty (30) quarter hours outside of the Diviision of the Natural Sciences.

Those students who plan to teach in public schools should read the footnote at the bottom of page 178.

† Mathematics 1-2-3 or a year's work in Greek or Latin must be taken by each candidate for A.B.

4-5-6. FIRST YEAR MATHEMATICS (9). Required of Freshmen who expect to enter the School of Commerce.

An elementary study of algebra and trigonometry, including algebraic and trigonometric functions, solutions of right triangles by natural functions, graphs, factoring, fractions, ratio, proportion, variation, and the bionomial theorem, linear functions, quadratic functions, functions of higher degree, exponents, radicals, logarithms, and the solution of right triangles by logarithms, functions of multiple angles, and the solution of oblique triangles by means of the sine and cosine laws; progressions, interest and discount, annuities and their application to the extinction of interest bearing debts, depreciation, building and loan associations, evaluation and redemption of bonds, probability, mortality tables, life annuities, life insurance, and insurance reserves. *Three hours a week for the year.* Professors Hickerson, Lasley, Hobbs, Browne, Mackie, Linker, Winsor, Trimble, Hill, Hoyle, Garner, Cameron; Messrs. Ashcraft, Wells, Smith, Reynolds.

21-22-23. SECOND YEAR MATHEMATICS (9). Prerequisite, Mathematics 1-2-3 or equivalent.

The fundamentals of the analytic geometry of the straight line and the conic sections, transformation of coordinates, problems in loci. The differentiation process and its applications to geometry, physics, and mechanics, curvature of plane curves. The definite integral and its application to problems arising in geometry and the physical sciences, including length of arc, areas, volumes, moment of inertia, etc. Sophomore elective. *Three hours a week for the year.* Professors Hill, Hoyle, Cameron.

31-32-33. SECOND YEAR MATHEMATICS: INTENSIVE COUSE (15). Prerequisite, Mathematics 1-2-3 or equivalent.

A course designed primarily for students intending to be in the Division of the Natural Sciences whose major will be mathematics and who therefore want a more intensive course in the principles and methods of analytic geometry and the calculus. The concepts of the straight line and the conic sections and certain special plane curves are considered with especial consideration of the problems of loci. The fundamental concepts of both the differential and the integral calculus are developed with application of a somewhat extended nature to situations in geometry, physics, and mechanics. These courses, though consecutive, may be taken separately in the order named for credit. Sophomore elective. *Five hours a week for the year.* Professors Henderson, Mackie, Linker, Garner.

36. SELECTED TOPICS IN ANALYTIC GEOMETRY AND CALCULUS (6). Prerequisite, Mathematics 21-22-23.

This course is designed to supplement the sequence Math. 21-22-23 and complete the requirement of fifteen hours. Such topics as solid analytic geometry, series, envelopes and partial differentiation in differential calculus, and double and triple integration in integral calculus are treated. *Six hours a week, fall quarter.* Professor Linker.

41. MECHANICAL DRAWING (3). For freshmen and others.

Use of instruments, lettering, line work, geometric constructions. Study of the principles of orthographic projection and isometric drawing; intersections and development of simple surfaces. Plate layout and title composition; dimensioning and sectioning. The student makes a series of accurate plates in pencil and in ink. *Lectures and laboratory, five hours a week, every quarter. Laboratory fee, $1.00.* Professor Trimble.

42. DESCRIPTIVE GEOMETRY (3). Prerequisite, Mathematics 41.

Fundamental problems of the point, line, and plane. Intersections of planes and curved surfaces. Elements of shades and shadows. Applications of principles of descriptive geometry to the graphical solution of practical problems. *Lectures and laboratory, five hours a week, winter quarter. Laboratory fee, $1.00.* Professor Trimble.

43. GRAPHICAL ANALYSIS (3). Prerequisite, Mathematics 41.

The construction of scalar and vector diagrams. Graphical representation of comparative or derived data. Fitting curves to plotted data and the design and composition of curve sheet and title. The use of nomographic charts in evaluating functions; stationary and sliding scales; networks of scales. *Lectures and laboratory, five hours a week, spring quarter. Laboratory fee, $1.00.* Professor Trimble.

51, 52. PLANE SURVEYING (5 each). Prerequisite, Mathematics 1, 2, 3, or equivalent. Mathematics 51 may be taken alone, but is prerequisite for Mathematics 52.

A general outline of methods of surveying; theory and use of compass, level, transit, plane table, and minor surveying instruments. Measurement and calculation of areas; stadia surveying; circular and parabolic curves. Topographic surveying; United States land surveys. Astronomical applications to the determination of meridian and latitude. Afternoon periods are devoted to plotting and calculation work and to field exercises. *Two lecture and six field hours a week;* Mathematics 51, *fall or winter quarter.* Mathematics 52, *winter or spring quarter. Fee, $4.00 each quarter.* Professor Trimble.

53. GEODESY (3). Prerequisite, Mathematics 51 or equivalent.

The figure and dimensions of the earth. Map projections with relation to the earth's shape considered as a sphere, spheroid, ellipsoid, geoid. The theory of base line measurement and triangulation. The adjustment of leveling and triangulation data by approximate methods and by least squares. Astronomy as applied to the determination of terrestrial positions and azimuths in a geodetic survey. Modern methods of determining longitude and geodetic positions. *Lectures, field work, and computing periods, five hours a week, fall or spring quarter. Fee, $4.00 each quarter.* Professor Trimble.

Courses for Graduates and Advanced Undergraduates

101. ADVANCED PLANE ANALYTIC GEOMETRY (3). Prerequisite, Mathematics 31-32-33.

This course is designed to present to the student who has taken Mathematics 31 an enlarged conception of analytic geometry of the plane, with many modern developments of the subject. Among the topics treated are the transformation of coordinates, the general equation of the second degree, a general study of loci, parametric representation of curves, polar coordinates, invariant properties of conics, intersections of curves, systems of curves, etc. *Three hours a week, fall quarter.* Professor Henderson.

103. INTRODUCTION TO HIGHER GEOMETRY (5). Prerequisite, Mathematics 33.

This is a teacher's course for graduate credit, especially devised for teachers who are candidates for the A.M. degree. The course deals with the properties of the triangle and circle from the modern point of view, poles and polars, harmonic division, transformation by reciprocal radii, Brocard points and circles, etc. *Five hours a week, spring quarter.* Professor Winsor.

104. INTRODUCTION TO ADVANCED ALGEBRA (5). Prerequisite, Mathematics 33.

This course supplements Mathematics 103. It is designed especially for teachers, and serves to bridge the gap between elementary algebra and Mathematics 246. Selected topics in advanced algebra, including such subjects as linear and quadratic forms, limits and series, complex numbers, elementary groups, etc. *Five hours a week, winter quarter.* Professor Cameron.

105. HISTORY OF MATHEMATICS (5). Prerequisite, Mathematics 31-32-33 or 21-22-23 and 36.

A survey course in the history of the evolution of mathematics, including arithmetic, algebra, geometry, trigonometry, analytic geometry, and calculus, from the earliest times down to the present. The treatment is technical as well as historical, presenting the details of mathematical development. The course is enriched with biographical studies of eminent mathematicians. *Five hours a week, winter quarter.* Professor Hill.

111. ELEMENTARY MATHEMATICAL STATISTICS (5). Prerequisite, Mathematics 33 or equivalent.

A course dealing with the elementary theory and applications of mathematical statistics, treating in detail the following topics: graphs, averages, dispersion, skewness, sampling, probable error, frequency curves and correlation. The course is designed to serve as a background for students dealing with statistical and observational data. *Five hours a week, spring quarter.* Professor Hill.

121. THEORETICAL AND APPLIED MECHANICS: STATICS (5).

The fundamentals of statics, including basic conceptions and definitions; resultants of force systems; equilibrium of force systems; friction; first moments and centroids; moments of inertia of areas and bodies. This course and its sequels, 122 and 123, are comparable to those offered at the accredited engineering schools of the country. *Five hours a week, fall quarter.* Professor Hickerson.

122. THEORETICAL AND APPLIED MECHANICS: KINEMATICS AND KINETICS (5).

Motion of a particle; translation, rotation and plane motion of rigid bodies; work and energy; impulse and momentum. *Five hours a week, winter quarter.* Professor Hickerson.

123. STRENGTH OF MATERIALS (6).

Stresses and strains in tension, compression, and shear; riveted and welded joints; torsion of shafts; shear, moment, and stresses in beams; deflection of beams by double-integration and moment-area methods; fixed, restrained, and continuous beams; composite beams; resilience; combined stresses; columns; energy loads. Parallel laboratory tests on specimens of steel, wrought iron, cast iron, concrete, and wood. *Five lecture and two laboratory hours a week, spring quarter. Laboratory fee, $4.00.* Professor Hickerson; Assistant.

124. HYDRAULICS (5). Prerequisite, Mathematics 121-123.

Properties of fluids; principles of hydrostatics; the measurement of pressure; hydrostatic equilibrium. Principles of hydro-dynamics involving forces in fluids in motion; the flow of water through orifices, weirs, tubes, nozzles, pipes, and open channels; fundamental mechanics of impulse and momentum of fluids in motion. *Five hours a week, fall quarter.* Professor Trimble.

125. STRUCTURAL FRAMEWORKS (5). Prerequisite, Mathematics 121-123.

Basic mathematical theory of steel and concrete structures, with special reference to buildings, dams, water towers, and foundations, and their component parts, such as beams, slabs, columns, frames, and roof trusses. *Five hours a week, winter quarter.* Professor Hickerson.

131. THEORY OF EQUATIONS (5). Prerequisite, Mathematics 33.

Indispensable for students intending to prosecute studies in the higher branches of pure mathematics. Such subjects as the solution of equations of higher degree, transformations, determinants, elimination, invariants and covariants, and symmetric functions are treated in detail. The student is afforded a survey of the general problem and the basic principles of the formation, handling, and evolution of equations. *Five hours a week, winter quarter.* Professor Winsor.

141. DIFFERENTIAL EQUATIONS (5). Prerequisite, Mathematics 32 and 33.

This is a course both for students intending to specialize in mathematics and for students in advanced engineering, civil, electrical, and chemical. Among the subjects treated are singular solutions, applications to mechanics, geometry, and physics, linear equations with both constant and variable coefficients, equations involving more than two variables, partial differential equations, and spatial forms. *Five hours a week, fall quarter.* Professor Linker.

151. PROJECTIVE HOMOGENEOUS COORDINATES AND THEIR APPLICATIONS (5). Prerequisite, Mathematics 33.

A study of the general homogeneous coordinates of forms of one, two, three, and four dimensions; cross ratio and its properties; ideal elements; duality; projective correspondence; transformation of coordinates; the elements of line geometry. *Five hours a week, fall quarter.* Professor Lasley.

152. ANALYTIC PROJECTIVE GEOMETRY (5). Prerequisite, Mathematics 151.

The projective theory of binary forms; the conic as a rational curve; the conic as a ternary form; the conic from the viewpoint of the theory of correlations; functional determinants and invariants; selected topics from higher geometry. *Five hours a week, winter quarter.* Professor Lasley.

161. ANALYTIC GEOMETRY OF SPACE (5). Prerequisite, Mathematics 33.

Spatial relations are treated from the analytical standpoint. Deals with quadric surfaces, envelopes, foci, quadriplanar and tetrahedral coordinates, developable surfaces, curves in space, curvature of surfaces, higher surfaces, etc. *Five hours a week, spring quarter.* Professor Henderson.

171. ADVANCED CALCULUS (5). Prerequisite, Mathematics 33.

This course completes and rounds out the subject as given in Mathematics 33. Stress upon rigor in demonstration. Designed to meet the particular needs of the class, e.g., problem course on study of special functions. Thorough knowledge of calculus is the aim of the course. *Five hours a week, spring quarter.* Professor Mackie.

181 (231). ELEMENTARY THEORY OF NUMBERS (5). Prerequisite, Mathematics 33.

An elementary course in the study of the properties of the rational integers, including the study of the question of divisibility, greatest common divisor of two or more integers, solution of simple congruences, quadratic residues, quadratic reciprocity law, representation of integers by quadratic forms, equivalence of quadratic forms, etc. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Browne.

Courses for Graduates

206. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (5). Prerequisite, Mathematics 131, 141, and 171.

Complex numbers, differentiation and integration, conformal mapping, linear fractional transformations, single and multiple valued functions. *Five hours a week, winter quarter.* Professor Henderson.

207. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (5). Prerequisite, Mathematics 206.

Power series and analytic continuation, entire and meromorphic functions, conformal mapping, Riemann surfaces. *Five hours a week, winter quarter.* Professor Jacobson.

211. VECTOR ANALYSIS (5). Prerequisite, Mathematics 121, 141, and 161, or equivalent.

A study of vector analysis with applications to mechanics, physics, and geometry. *Five hours a week, fall quarter.* Professor Hobbs.

216. DYNAMICS (5). Prerequisite, Mathematics 211.

Differential equations of motion, equations of orbits, D'Alembert's principle, motion of a rigid body. *Five hours a week, winter quarter.* Professor Hobbs.

221. PARTIAL DIFFERENTIAL EQUATIONS (5). Prerequisite, Mathematics 141.

An elementary treatment of partial differential equations with special emphasis upon applications. *Five hours a week, spring quarter.* Professor Hobbs.

226. FOUNDATIONS OF GEOMETRY (5). Prerequisite, Mathematics 151.

A course designed to meet the needs of students experienced in mathematical thinking. A survey of the contributions of Pasch, Peano, Hilbert, and their school to our knowledge of the foundations of geometry; a study of the axioms, of systems of geometry, etc. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Henderson.

232-233-234. ALGEBRAIC THEORY OF NUMBERS (15). Prerequisite, Mathematics 131, and 181 recommended.

In this course will be developed the theory of ideals which serves as a substitute for the theory of prime number decomposition in those domains where the classical theory fails to hold. Then, linking the Galois Theory and the theory of ideals, the Hilbert-Dedekind Theory will be evolved, and finally the class-field theory will be discussed. *Five hours a week, fall, winter, and spring quarters.* Professor Jacobson.

236. HIGHER PLANE CURVES (5). Prerequisite, Mathematics 152.

A course dealing with plane curves, particularly conics, cubics, and quartics; polarity, Plücker formulas, curves of Hesse, Steiner, and Cayley; classification of cubics, intersections of curves, singularities of curves, unicursal curves. *Five hours a week, spring quarter.* (1940-1941 and alternate years.) Professor Lasley.

241. LIE THEORY OF DIFFERENTIAL EQUATIONS (5). Prerequisite, Mathematics 141.

A study of differential equations from the point of view of continuous groups. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Hobbs.

242-243. CONTINUOUS GROUPS (10).

This course will deal with global as well as local properties of continuous groups. The essentials of Lie's Theory will be discussed and stress will be laid on the algebraic problems arising in this connection. Examples of simple Lie groups will be studied in some detail. (1940-1941 and alternate years.) *Five hours a week, fall and winter quarters.* Professor Jacobson.

246. MODERN HIGHER ALGEBRA (5). Prerequisite, Mathematics 131.

Polynomials and their fundamental properties, determinants, theory of linear dependence, linear equations, matrices, invariants, bilinear and quadratic forms. *Five hours a week, winter quarter.* Professor Browne.

251. ELEMENTS OF NON-EUCLIDEAN GEOMETRY (5). Prerequisite, Mathematics 151.

The subject is treated chronologically. The contributions of Saccheri, Bolyai, Lobachewsky, Riemann, Cayley, Klein are studied, analyzed, and compared. *Five hours a week, fall quarter.* Professor Henderson.

256. ALGEBRAIC INVARIANTS (5). Prerequisite, Mathematics 131 and 152.

An introduction to the non-symbolic theory of invariants of binary forms with applications to geometry, followed by an explanation of the symblic notation of Clebsch with practice in its use. Based on Dickson's *Algebraic Invariants.* (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Browne.

261. DIFFERENTIAL GEOMETRY (5). Prerequisite, Mathematics 141 and 152.

A study of the metric differential geometry of curves, surfaces, and curves on surfaces, systems of curves defined by differential equations, surfaces given by two quadratic differential forms. *Five hours a week, spring quarter.* Professor Lasley.

266-267-268. INTRODUCTION TO THE THEORY OF SETS, FUNCTIONS OF REAL VARIABLES, AND LEBESGUE INTEGRALS (15). Prerequisite, Mathematics 161 and 171.

Elements of the theory of abstract sets (cardinal numbers, ordinal numbers), and point sets (limit point, closed sets, open sets, Heine-Borel theorem); functions; mappings; continuity; semi-continuity; theory of measure and integration; trigonometric series. *Five hours a week, fall, winter, and spring quarters.* Professor Hurewicz.

271. INTRODUCTION TO THE THEORY OF RELATIVITY (5). Prerequisite, Mathematics 121 and 141.

In this course the essential features of the special and general relativity theories of Einstein are set forth from the mathematical point of view. Particular study is made of the Voigt-Lorentz transformation and of the three crucial tests of the theory. *Five hours a week, fall quarter.* Professor Henderson.

272. TENSOR ANALYSIS (5). Prerequisite, Mathematics 141 and 271.

A study of transformation of coordinates and tensor variants under such transformations. Especial attention is paid to the application of tensors to the study of differential geometry and relativity theory. *Five hours a week, winter quarter.* Professor Hoyle.

273. ADVANCED RELATIVITY THEORY (5).

Restricted relativity, with applications to physical and electrical problems. General relativity and gravitation. Geodesics and curvature in space-time. Cosmological speculations as to a finite, unbounded universe, and also an expanding universe. Theories of Einstein, De Sitter, Eddington, and LeMaitre. *Five hours a week, spring quarter.* Professor Henderson.

280. CALCULUS OF VARIATIONS (5). Prerequisite, Mathematics 141 and 171.

A study of various kinds of minimizing problems, determining functions which minimize certain definite integrals. Isoperimetric problems. Necessary conditions for an extreme as deduced by Euler, Weierstrass, Legendre, and Jacobi, and conditions sufficient to insure such an extreme. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Mackie.

286. PROJECTIVE DIFFERENTIAL GEOMETRY (5). Prerequisite, Mathematics 152 and 261.

A study of the projective properties of curves and ruled surfaces by means of the invariants and covariants of systems of homogeneous differential equations. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Lasley.

291. INTRODUCTION TO THE THEORY OF FINITE GROUPS (5). Prerequisite, Mathematics 131.

Deals with the theory of substitutions in general and as applied to the algebraic equation. Simple and compound groups, transitivity, and primitivity. Cyclic and linear groups, linear fractional substitutions, etc. Numerous applications in algebra and geometry. *Five hours a week, spring quarter.* Professor Henderson.

296, 297, 298. BASIC TOPICS IN MODERN ALGEBRA (5 each). Prerequisite, Mathematics 131.

This course, for graduates only, will deal with certain fundamental aspects of modern algebra, from the axiomatic point of view. The essential theorems will be elucidated in concrete examples. The topics to be treated are: I. Groups; II. Rings; III. Factorization Theory; IV. Fields; V. Galois Theory; VI. Vector Spaces and Linear Transformations. *Five hours a week, fall, winter, and spring quarters.* Professor Jacobson.

SEMINARS AND THESES (5 each).

Reading and research in mathematics conducted by members of the department, as follows:

351. Thesis work and Seminar. Professor Henderson.
352. Thesis work and Seminar. Professor Hickerson.
356. Thesis work and Seminar. Professor Lasley.
361. Thesis work and Seminar. Professor Hobbs.
366. Thesis work and Seminar. Professor Browne.
371. Thesis work and Seminar. Professor Winsor.
372. Thesis work and Seminar. Professor Hoyle.
376. Thesis work and Seminar. Professor Mackie.
381. Thesis work and Seminar. Professor Jacobson.
386. Thesis work and Seminar. Professor Hurewicz.

MEDICAL SCIENCES

The School of Medicine offers the following courses for academic undergraduates:

BACTERIOLOGY

51. ELEMENTARY BACTERIOLOGY (6). Prerequisite, General Chemistry and one course in Botany or Zoology. *Elective.

A lecture and laboratory course offered as a general science course. The fundamental principles of bacteriology are emphasized, and the student is trained in general bacteriological technique. The morphological and biological characteristics of the molds, yeasts, and saprophytic bacteria are studied. Pure cultures are isolated from air and water, and identification attempted. The applications of bacteriology to agriculture, industry, and the home are considered. (Registration of a minimum of six students required). *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $4.00.* Professor MacPherson.

101. PATHOGENIC BACTERIOLOGY (8). Required of medical students. Prerequisite for academic students, General Chemistry, Chemistry 31, and Bacteriology 51, or equivalent. *Elective.

The early weeks of the course are devoted to a thorough grounding in the fundamental principles of bacteriology. Each student prepares the various culture media in common use; cultivates and describes several non-pathogens from stock cultures; and practices the more useful staining methods. Pure cultures are isolated from air and water and their biology studied. The major portion of the course is devoted to the detailed study of the pathogens. Unknown mixtures are used to test the student's ability to differentiate organisms of the various groups. Practical applications of bacteriology in the diagnosis of disease are stressed by the examinations of sputa, pus, feces, and blood. Animal inoculations are made to demonstrate the process of infection and the differentiation of certain organisms. Lectures cover all the more important diseases. *Three lecture and nine laboratory hours a week, fall quarter. Laboratory fee for non-medical students, $6.00.* Professor MacPherson.

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* Before registering for this course the academic student must secure the permission of his Dean.

104. INFECTION, IMMUNITY, AND SERUM DIAGNOSIS (6). Required of medical students. Prerequisite, Bacteriology 101 or its equivalent. *Elective.

The early laboratory work is designed to demonstrate the basic principles of immunology and serology. Practical training is given in the production and use of agglutinins, precipitins, lysins, and complement fixing antibodies. Vaccines are prepared, and their use demonstrated. The preparation and standardization of antimicrobic and antitoxic sera are studied. Anaphylaxis and allergy are produced in animals, and methods of diagnosis and desensitization practised. The student is required to prepare his own materials and to inject and bleed animals himself. Special attention is given to the use of these principles in the diagnosis of blood stains, blood grouping, typhoid fever, typhus fever, diphtheria, tuberculosis, hay fever, gonorrhea, and syphilis. Unknown specimens test the student's ability to use the reactions. Lectures consider the principles of infection, immunity, and resistance. *Three lecture and six laboratory hours a week, winter quarter. Laboratory fee for non-medical students, $6.00.* Professor MacPherson.

110. PUBLIC HEALTH LABORATORY METHODS (5). Prerequisite, Bacteriology 101 or its equivalent. *Elective.

A course of training in the modern bacteriological methods employed in the routine work of a public health laboratory. Practice is afforded in the laboratory diagnosis of diphtheria, tuberculosis, typhoid fever, pneumonia, malaria, gonorrhea, syphilis, and rabies. The bacteriological examination of water, milk, and canned goods is also practised. The course is designed for medical students and those wishing to qualify as bacteriological laboratory technicians. *Two lecture and six laboratory hours a week, spring quarter. Laboratory fee for non-medical students, $4.00.* Professor MacPherson.

115. ADVANCED BACTERIOLOGY (5½). Prerequisite, Bacteriology 101 and 104. *Elective.

This course is designed to introduce the student to research methods through minor investigations under more or less constant guidance. The results of the investigation of a problem, including bibliography, are written up as for publication. *One conference and nine laboratory hours a week, fall or winter or spring quarter. Laboratory fee, $4.00.* Professor MacPherson.

117. PUBLIC HEALTH AND HYGIENE (3). Prerequisite, Bacteriology 101. Required of medical students. *Elective.

Lectures and demonstrations designed to acquaint the student with general environmental sanitation including sewage disposal, water supplies, and the hygiene of milk and food. Vital statistics, public health regulations, and various public health organizations are discussed. Arthropod vectors of disease and the important parasitic protozoa and helminths are considered. *Three hours of lecture and demonstrations a week, spring quarter.* Professor Browne.

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* Before registering for this course the academic student must secure the permission of his Dean.

*BIOLOGICAL CHEMISTRY

41. FOODS (3).

An elementary course dealing with the principles of food selection and food values. Elementary chemistry is a desirable but not an indispensable prerequisite. The practical and economic value of various classes of food products from the standpoint of protein, fat, carbohydrate, mineral, and vitamin content is emphasized. *Three hours a week, winter quarter.* Professor Andrews.

101. FOOD CHEMISTRY (6). Prerequisite, Chemistry 42 and 61.

A course covering the principles of the chemistry of food and nutrition from a purely chemical viewpoint. The laboratory work consists chiefly of quantitative methods of food analysis. *Three lecture and six laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professors Andrews, Kyker.

102-103. GENERAL BIOLOGICAL CHEMISTRY (12). Prerequisite, Chemistry 42, 61, 62 and 63.

A course covering the fundamental principles of biological chemistry, as applied to the metabolism of the animal body. To meet the needs of the medical students, of whom it is required, 102 contains more (3 class and eight laboratory hours) and 103 less (2 class and four laboratory hours) than the equivalent of a full course. The above rating represents an average of both quarters. *102: three lecture and eight laboratory hours a week, winter quarter; 103: two lecture and four laboratory hours a week, spring quarter. Laboratory fee, $10.00 each quarter.* Professors Andrews, Kyker.

PHYSIOLOGY

3a. NATURAL SCIENCE: ELEMENTS OF HUMAN PHYSIOLOGY (4). Freshman Elective. Prerequisite, Natural Science 1 and 2.

A consideration of the functions of the various parts of the body and their relation and importance in maintaining the normal condition of the organism. The systems are discussed separately, and collectively, in so far as each depends upon the others for proper regulation. Stress is applied to both normal and abnormal conditions in man. *Three lecture and two demonstration hours a week, spring quarter. Laboratory fee, $2.00.* Professor Ferrill; Assistants.

*51. GENERAL COURSE IN PHYSIOLOGY (5). Prerequisite, general courses in zoology and chemistry.

Study of circulation, respiration, digestion, metabolism, nutrition, the nervous system, reproduction, excretions, and the endocrine glands. These systems are discussed in lectures and the material is supplemented by the laboratory work. The student uses frogs and turtles in the laboratory and assists the instructor with demonstrations on dogs, cats, and rabbits. In this way the student is made acquainted with the actual functions of the body and how each part or system is related and affected by every other system. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Ferrill.

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* Before registering for this work the academic student must secure the permission of his Dean.

141. PHYSIOLOGY OF MUSCLE, NERVE, AND CIRCULATION (5). Prerequisite, consult the instructors.

Study of the physiology of muscle, nerve, and circulation. Attention is called to pathological conditions which are commonly associated with disturbed functions of these systems, and these tend to emphasize the importance of the normal function. Required of all medical students and open to any others who have had the necessary prerequisite work. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee for non-medical students, $5.00.* Professors Ferrill, Bruner; Dr. Miller. See Graduate Catalogue.

142. GENERAL COURSE IN PHYSIOLOGY (12). Prerequisite, consult the instructors.

Study of respiration, digestion, metabolism, excretions, the central nervous system, special senses and endocrine glands. Required of all medical students and open to any other students who have had the necessary prerequisite work. *Six lecture and twelve laboratory hours a week, spring quarter. Laboratory fee for non-medical students, $10.00.* Professors Ferrill, Bruner; Dr. Miller. See Graduate Catalogue.

*DEPARTMENT OF MUSIC

Professor: GLEN HAYDON.

Associate Professors: B. F. SWALIN, E. A. SLOCUM.

Assistant Professors: J. P. SCHINHAN, J. E. TOMS.

Assistants: HERBERT LIVINGSTON, WILLIAM KLENZ, IRVIN ZIMMERMAN.

Courses for Undergraduates

1-2-3. NOTATION, SIGHT-SINGING, AND DICTATION (6).

A course in the rudiments of musical symbols with practice in reading and writing scales, intervals, melodies, and elementary harmonic materials. No prerequisite work nor previous training is necessary for Music 1, but previous experience will obviously be of great value to the student. *Four laboratory hours a week, fall, winter, and spring quarters.* Professor Toms.

14-15-16. HARMONY (9). Prerequisite or corequisite, Music 1-2-3. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

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* The courses in Music are designed to perform a three-fold function in the University: (a) to give the student electing music as his chief interest a thorough training in the practical, theoretical, and historical aspects of the subject as a part of the general liberal arts curriculum for the A.B. degree; (b) to give the student interested in the scholarly aspects of the subject the basic training necessary for successful graduate work; (c) to afford students in other departments the opportunity to take music as an elective for its cultural value in the liberal arts program.

Course leading to the A.B. degree with Music as the Major. Students who take music as the major must modify the regular program for the first two years in order to begin music their first year. They will take English 1-2-3, a foreign language, Music 1-2-3 and 14-15-16, and mathematics or Latin or Greek, or the regular freshman course in social science, or the regular freshman course in natural science. Courses in the regular freshman program postponed to make way for the music must be taken at some later time. Similar arrangements must be made in the sophomore year to provide for Music 21-22-23, 24-25-26, and 44-45-46.

The undergraduate major in Music consists of from thirty to forty quarter hours beyond the freshman-sophomore requirements and must include Music 61-62-63, 74-75-76, and 101-102-103 or 124-125-126. Attention is called to the special requirements in applied Music. See page 234.

21-22-23. NOTATION, SIGHT-SINGING, AND DICTATION (3). Prerequisite, Music 1-2-3. Sophomore requirement for those who will have music as a major.

Continuation of Music 1-2-3. *Two laboratory hours a week, fall winter, and spring quarters.* Professor Toms.

24, 25, 26. THE HISTORY OF MUSIC (3 each). Sophomore requirement for those who will have music as a major.

This survey course in the history of music is divided into the following three parts, any one of which may be taken separately: (1) the period from antiquity to the end of the sixteenth century; (2) the seventeenth and eighteenth centuries; (3) Romantic and Modern Music. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

44-45-46. ADVANCED HARMONY (9). Prerequisite, Music 14-15-16; prerequisite or corequisite, Music 21-22-23. Sophomore requirement for those who will have music as a major.

Three hours a week, fall, winter, and spring quarters. Professor Schinhan.

*54. INSTRUMENTAL MUSIC OF THE CLASSICAL PERIOD (5).

Open to juniors, seniors, and graduates, without prerequisite. No knowledge of music is necessary. Will not be accepted as part of a major. Lectures, illustrations, performances, and phonographic recordings. *Five hours a week, winter quarter.* Professor Swalin.

*55. INSTRUMENTAL MUSIC OF THE ROMANTIC AND MODERN PERIODS (5).

Similar to course 54. Open to juniors, seniors, and graduates, without prerequisite. No knowledge of music is necessary. Will not be accepted as part of the major. *Five hours a week, fall quarter.* Professor Swalin.

*56. A SURVEY OF VOCAL MUSIC (5).

Similar to Music 54. This course will be devoted to the study of such vocal music as the Gregorian Chant, madrigal, motet, mass, art song, opera, and oratorio. Open to junirs, seniors, and graduates, without prerequisite. No knowledge of music is necessary. Will not be accepted as part of the major. *Five hours a week, spring quarter.* Professor Swalin.

61-62-63. MODAL COUNTERPOINT IN THE 16TH CENTURY STYLE (9). Prerequisite, Music 14-15-16.

Study and practice of the contrapuntal technique of the 16th century; the writing of simple motets. *Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

71-72-73. INSTRUMENTATION, ORCHESTRATION, AND ELEMENTARY CONDUCTING (9). Prerequisite, Music 44-45-46.

A course in the study of the principles and practice of instrumentation for orchestra and band, elementary score reading, and conducting. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

74-75-76. ANALYSIS AND COMPOSITION IN THE SMALLER FORMS (9). Prerequisite, Music 44-45-46.

Three hours a week, fall, winter, and spring quarters. Professor Slocum.

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* Music 54, 55, 56 carry no graduate credit.

Courses for Graduates and Advanced Undergraduates

101-102-103. INTRODUCTION TO MUSICOLOGY (9). Prerequisite, a reading knowledge of one or more of the important foreign languages, a fair knowledge of musical theory, and some skill in practical applied music.

A study of the problems and methods in the various fields, historical and systematic, of musical knowledge, and research. *Three hours a week, fall, winter, and spring quarters.* Professor Haydon.

**121-122-123. STUDIES IN THE HISTORY OF MUSIC (9). Prerequisite, Music 24, 25, 26, and 44-45-46.

A critical study of certain composers or periods of musical development, such as Johann Sebastian Bach, Richard Wagner, or The Music of the Sixteenth Century. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

**124-125-126. MODERN MUSIC (9). Prerequisite, Music 24, 25, 26, and 44-45-46.

The three divisions of this course relate to Neo-Romanticism, Musical Impressionism, and Musical Expressionism respectively. A critical analysis of selected works by representative modern composers will be essayed, and an effort made to correlate these studies with other phases of art and culture. Students may be admitted to the course at the beginning of each quarter, with the permission of the instructor. *Three hours a week, fall, winter, and spring quarters.* Professor Swalin.

161-162-163. FREE COUNTERPOINT, CANON AND FUGUE (9). Prerequisite, Music 61-62-63.

A study of contrapuntal procedure with particular reference to the style of Bach. *Three hours a week, fall, winter, and spring quarters.* Professor Slocum.

†174-175-176. ANALYSIS AND COMPOSITION IN THE LARGER FORMS (9). Prerequisite, Music 74-75-76.

Three hours a week, fall, winter, and spring quarters. Professor Schinhan.

Courses for Graduates

201. SPECIAL STUDIES (To be arranged).

The Department is ready to assist and advise competent graduate students who may propose plans for either research or creative work which meet with its approval. Hours and credit to be arranged. Professor Haydon.

†204-205-206. INTRODUCTION TO COMPARATIVE MUSICOLOGY (9).

A survey of representative systems of primitive and folk music; discussion of cultural and musical implications; a study of problems and methods of research with exercises in transcription and analysis of records made in the field. *Three hours a week, fall, winter, and spring quarters.* Professor Schinhan.

301-302-303. SEMINAR: MUSICOLOGY (9).

Special topics or fields of study will be selected for each quarter after consultation with the class. *Three hours a week* (to be arranged), *fall, winter, and spring quarters.* Professor Haydon.

** Music 121-122-123 or 124-125-126 will be given as the demand warrants.

† Music 174-175-176 or 204-205-206 will be given as the demand warrants.

APPLIED MUSIC

The following courses in applied music are open to students in any department of the University having the necessary technical equipment. The work in applied music is regarded not merely as technical training in performance, but also as a study of the standard literature for the particular instrument or ensemble group. Credit in general will be given on the basis of one quarter hour credit a year in the first and second years; two quarter hours credit a year in the third and fourth years. Credit in the Teacher Training Program will be given on the basis of 1½ quarter hours for twelve half-hour lessons with six or more hours of practice for each lesson. For those whose major is not music a total credit not to exceed ten quarter hours may be counted as electives in the A.B. curriculum. Those whose major is music must offer at least ten quarter hours in applied music and may offer a total not to exceed twenty-five quarter hours in this field, of which not more than ten may be in ensemble courses. All students with majors in music, unless given special permission by the Head of the Department, must continue individual instruction in applied music throughout the four years. Students planning to teach instrumental music in the public schools will arrange their schedule for the study of the wind and stringed instruments in consultation with the Department.

The general prerequisite for entrance into the first year courses is ability to perform music of difficulty rated as grade three for the particular instrument. Copies of the course of study for each instrument will be sent upon request. Students who do not have this prerequisite will repeat the preparatory course without credit until they qualify for the freshman course. The candidate for the A.B. degree with a major in music must complete as a minimum the freshman course in his chosen field of applied music. Students electing some other instrument than piano for their work in applied music must demonstrate sufficient pianistic ability to enable them to meet the practical requirements of the course to be pursued. This is interpreted to mean the ability to play at sight hymns or compositions of similar difficulty.

Students seeking the A.B. degree with a major in Music will be required to participate in the musical organizations of the Department, and those in advanced applied music courses must take part in recitals as prescribed by the Department.

Fees

Fees for individual instruction are: $18.00 a quarter for one lesson a week; $36.00 a quarter for two lessons a week. The fees for class instruction vary from $3.50 to $10.00 a quarter according to the number of lessons a week. Practice rooms and periods are assigned at the Music Department Office. Fee for one hour daily practice period (room with piano), $3.00 a quarter; fee for two hours daily practice, $5.00 a quarter. Other fees in proportion. Fee for six hours practice a week on Reuter four manual organ, $15.00 a quarter. All fees for applied music and practice must be paid at the office of the Department of Music.

Individual Instruction

A. PREPARATORY ORGAN (no credit).

The aim of this course is to give the student the preliminary training on a keyboard instrument required for entrance into the course 1A. *One or two half-hour lessons and six or twelve hours practice a week, every quarter.* Professor Schinhan.

1A. FIRST YEAR ORGAN (1 or 2). Prerequisite, ability to play music for a keyboard instrument of the difficulty of Heller, Op. 45, 46, 47; Bach Two-Part Inventions; scales and arpeggios in moderate tempo; simple hymns (at sight). Value, 1 or 2 quarter hours respectively for one or two lessons and six or twelve hours of practice a week throughout the year. Professor Schinhan.

21A. SECOND YEAR ORIGIN (1 or 2). Prerequisite, Music 1A. Value, hours, and fee as in 1A. Professor Schinhan.

51A. THIRD YEAR ORGAN (2 or 4). Prerequisite, Music 21A. Value, 2 or 4 quarter hours respectively for one or two lessons and six or twelve hours practice a week throughout the year. Professor Schinhan.

21A. SECOND YEAR ORGAN (1 or 2). Prerequisite, Music 1A. Value, hours, and fee as in 1A. Professor Schinhan.

Similar numbering and description with regard to value, hours, fees, and prerequisite work apply to each of the courses B, C, D, and E.

B. PIANO. Professor Schinhan; Messrs. Livingston, Zimmerman.

C. VOICE. Professor Toms.

D. VIOLIN. Professor Swalin.

E. FLUTE or other band or orchestral instrument. Professor Slocum, Mr. Klenz.

Class Instruction

For students desiring to complete the general piano requirements, for those in the general instrumental course, and for those wishing special training in voice, class instruction will be offered as far as practicable. Applications for admission to any of these classes should be made at the office of the Department of Music as soon after registration as possible. Hours to be arranged.

Ensemble Groups

1F. FIRST YEAR BAND (1 for year). Prerequisite, approval of instructor based upon a "try-out" given at the beginning of each quarter.

A minimum of two hours a week throughout the year. Professor Slocum.

21F. SECOND YEAR BAND (1 for year).

Hours and value as in preceding course. Professor Slocum.

51F. THIRD YEAR BAND (2 a year).

A minimum of two hours a week throughout the year. Professor Slocum.

81F. FOURTH YEAR BAND (2 a year).

Hours and value as in the preceding course. Professor Slocum.

Similar numbering, prerequisite work, value, and hours apply to each of the following courses in applied music:

1G. ORCHESTRA. Professor Swalin.

1H. GLEE CLUB. Professor Toms.

1I. PIANO ENSEMBLE, OR OTHER INSTRUMENTAL ENSEMBLE. Professors Slocum, Swalin; Messrs. Livingston, Zimmerman.

DEPARTMENT OF PHILOSOPHY

Kenan Professor Emeritus: H. H. WILLIAMS.
Professors: F. F. BRADSHAW, G. F. THOMAS.
Visiting Professor: HELMUT KUHN.
Associate Professor: S. A. EMERY.
Assistant Professor: L. O. KATTSOFF.

Any student planning a major in Philosophy should take Philosophy 21-22-23 or 41 in the General College. Over and above the full requirements of the General College he must complete during his junior and senior years at least eighteen whole courses, six of them in Philosophy, including 56, 58, and such more specialized courses as he needs to gain a thorough knowledge of one philosopher or philosophical school. In addition, since philosophy is a member of each of the Divisions, three alternative requirements follow:

> For a major in the Division of the Humanities four to eight whole courses (not more than four in one department; distributed between at least two departments) outside of philosophy in the Division of the Humanities, four to seven whole courses outside the Division.
>
> For a major in the Division of the Social Sciences Philosophy 91, one course from the group, Philosophy 86, 171, 172, 173, seven (or five) whole courses outside of philosophy in the Division of the Social Sciences, five to seven whole courses outside the Division.
>
> For a major in the Division of the Natural Sciences Philosophy 71, six whole courses outside of philosophy in the Division of the Natural Sciences, six whole courses outside the Division.
>
> The student and his Departmental adviser in consultation will make all the selections indicated above.

Courses for Undergraduates

21-22-23. INTRODUCTORY PHILOSOPHY: LOGIC, METAPHYSICS, ETHICS (9). Sophomore elective.

A course designed to acquaint the beginner with the general nature of all thinking and the philosophic principles underlying current views of nature, man, and personal conduct. *Three hours a week throughout the year.* May be entered any quarter and taken in any sequence. Logic: a study of the forms of valid inference with attention both to principles and to concrete applications in science and social life. *Fall quarter,* Professors Emery, Kattsoff. Metaphysics: views of the basic character of the human person, his status in nature, and his ultimate significance in the universe. *Winter quarter,* Professors Emery, Kattsoff. Ethics: evaluation of attitudes, such as the Stoic and Epicurean, expressed in present personal conduct. *Spring quarter,* Professor Bradshaw, Visiting Professor Kuhn.

41. FIELDS OF PHILOSOPHY (5).

A survey of the chief fields and problems of philosophy to prepare for later courses, and for the independent reading of those who may be unable to continue in the Department. Much of the material of Philosophy 21-22-23 is covered; no student may secure credit for both. *Five hours a week, fall quarter.* Professor Emery.

56. THE DEVELOPMENT OF ANCIENT PHILOSOPHY (5).

The growth of philosophic thought from the dawn of Greek philosophy to the beginning of the Christian Era. Special attention will be paid to Plato and Aristotle. *Five hours a week, fall quarter.* Professor Thomas.

57. THE DEVELOPMENT OF CHRISTIAN PHILOSOPHY (5).

Designed to serve as an introduction to medieval philosophy and as a background for philosophy of religion. The origin of Christian beliefs about God, Creation, and Man in the Old and New Testaments: the dogmatic interpretation of these beliefs by Greek and Latin thinkers such as Athanasius and Augustine; the development of medieval Christian philosophy in Anselm, Abelard, Aquinas, and Duns Scotus. The significance of Luther and Calvin will be briefly analyzed. *Five hours a week, winter quarter.* Professor Thomas.

58. THE DEVELOPMENT OF MODERN PHILOSOPHY (5).

The growth of philosophic thought from the end of the Middle Ages through the nineteenth century. Chief emphasis on the seventeenth and eighteenth centuries (British empiricism, Continental rationalism, Kant); brief reference to the Renaissance and the nineteenth century. *Five hours a week, spring quarter.* Professor Emery.

63. CONTEMPORARY PHILOSOPHY (5).

A study of the most significant philosophic tendencies of the present and recent past as outgrowths of important movements in the history of philosophy. Selections from such men as Bergson, Croce, Dewey, Santayana, and Whitehead. *Five hours a week, winter quarter.* Professor Emery.

66. INTRODUCTION TO METHODS OF THOUGHT (5).

The forms of valid inference, deductive and inductive. Immediate, syllogistic, and scientific inference with special attention to applications. Methods of reasoning in science, history, law, and ethics. Recommended for all students desiring some training in logical methods. *Five hours a week, spring quarter.* Professor Kattsoff.

71. PHILOSOPHY OF SCIENCE (5).

Reason and nature. Scientific method. The concepts of physics, and biology. The implications of contemporary science for the nature of reality, religion, and man. Lectures, directed readings, and discussions. (1941-1942 and alternate years, alternating with Philosophy 142.) *Five hours a week, spring quarter.* Professor Kattsoff.

76, 77. AESTHETIC VALUES (5 each).

A study of art and beauty from a philosophical point of view. Starting with an analysis of single aesthetic experiences and single works of art, the course is intended to lead up to the ultimate principles of aesthetics. First quarter: analysis of architecture, painting, sculpture, music, and poetry as distinct media of artistic expression. Theories concerning these arts will be discussed. Second quarter: theory of the aesthetic object and the aesthetic experience. Survey of the history of aesthetics, with special emphasis on Kant, Hegel, Croce, Alexander, and Collingwood. *Five hours a week, fall and winter quarters.* Visiting Professor Kuhn.

81. PHILOSOPHICAL IDEAS IN MODERN LITERATURE (5).

A course designed to trace those trends of philosophical thought which since the beginning of the nineteenth century have developed outside the academic tradition. The main topics: idealism and aestheticism (Emerson and the American Transcendentalists, Carlyle, Ruskin, William Morris, Flaubert, Walter Pater, Walt Whitman); criticism of culture (Marx, Kierkegaard, Tolstoy, Nietzsche, Ibsen); recent tendencies (Psycho-analysis, Neo-Humanism, Totalitarianism).

The bearing of these theories on the understanding of the present situation will receive special attention. *Five hours a week, spring quarter.* Visiting Professor Kuhn.

86. MORAL VALUES (5).

An approach to the problem of conduct through an analysis of Aristotle's *Ethics*, the ethical teachings of Jesus, and certain modern ethicists. Greek, Christian, and modern conceptions of good, virtue, and duty will be compared. *Five hours a week, fall quarter.* Professor Thomas.

91. PHILOSOPHY OF THE STATE (5).

An analysis of classical political theories, such as those of Aristotle, Aquinas, Machiavelli, Rousseau, Burke, and Lenin. Special attention will be paid to the contributions of Greek and Medieval thinkers and to the fundamental issues of contemporary Liberalism, and Totalitarianism. *Five hours a week, winter quarter.* Professor Thomas.

96. RELIGIOUS VALUES (5).

The nature of religion and its relation to morality and art will be analyzed. An attempt will be made to deal with the implications of science for religion. Problems concerning the nature of God, the soul, and evil will be treated. The social and political significance of religion will be indicated. *Five hours a week, spring quarter.* Professor Thomas.

Courses for Graduates and Advanced Undergraduates

121. KANT (5). Prerequisite, Philosophy 58 or special permission.

A study of Kant's Critical Philosophy as rooted in eighteenth century empiricism and rationalism and as initiating German idealism. Lectures, readings, and discussion. *Five hours a week, fall quarter.* Professor Emery.

122. PLATO AND ARISTOTLE (5). Prerequisite, Philosophy 56 or special permission.

This course is designed for those who desire to make a more careful study of Plato and Aristotle than is possible in Philosophy 56. Some of the later dialogues of Plato will be read and selections from Aristotle's treatises on nature, the soul, and ethics will be analyzed. The nature of Plato's influence upon Plotinus and of Aristotle's influence upon Aquinas will be indicated. *Five hours a week, winter quarter.* Visiting Professor Kuhn.

123. CONTINENTAL RATIONALISM (5). Prerequisite, Philosophy 58 or special permission.

The breakdown of the authoritarianism of the Middle Ages. The increase of travel and the development of science, destroying the old criteria of morals and truth and producing such men as Montaigne and Bruno. Descartes' search for a new criterion in reason. The development of rationalism through Leibniz and Spinoza, and its influence on literature, religion, and political thought. Rationalism as a method will be evaluated on the basis of these studies. Readings in Descartes, Spinoza, and Leibniz; papers and discussions. (1941-1942 and alternate years, alternating with Philosophy 126.) *Five hours a week, winter quarter.* Professor Kattsoff.

124. PHILOSOPHY OF THE NINETEENTH CENTURY (5). Prerequisite, Philosophy 58 or special permission.

German idealism (Fichte, Schelling, Hegel), materialism (Marx), and voluntarism (Schopenhauer, Hartmann, Nietzsche); French positivism (Saint-Simon, Comte) and its opponents; English empiricism (Mill, Spencer) and its idealistic critics (Green, Bradley). The mutual influences of these movements as forming the texture of European thought in the last century and leading to recent American philosophy. Lectures, readings, and discussions. *Five hours a week, fall quarter.* Visiting Professor Kuhn.

125. ENGLISH PHILOSOPHICAL THOUGHT SINCE 1750 (5).

A study of some of the major issues of English philosophy and literature and of their significance for the present day; the culmination of Empiricism (Hume); the reaction of Romanticism against the "Age of reason" (Burke, Wordsworth); the development of Utilitarianism (Bentham, Mill); the conflict between Naturalism and Idealism (Coleridge, Huxley, Ward); and the issue between Liberalism (Green, Hobhouse) and Socialism (Morris, Strachey). *Five hours a week, spring quarter.* Professor Thomas.

126. CONTEMPORARY AMERICAN PHILOSOPHY (5). Prerequisite, Philosophy 21-22-23 or 41 or 58.

A study of the chief works of representative philosophers (Dewey, Whitehead, Lovejoy, Santayana, Montague, etc.). A survey of important movements, such as Idealism, Pragmatism, Realism, and Positivism. The reciprocal influence of these movements and general cultural changes will be traced. (1940-1941 and alternate years, alternating with Philosophy 123.) *Five hours a week, winter quarter.* Professor Kattsoff.

131, 132, 133. LOGIC AND CIVILIZATION (5 each).

A study of the universal principles in the development of civilization. An attempt, based on Hegel's philosophy, to understand the currents of thought and action directing our modern world and to lay the foundations for a philosophical approach to problems. First quarter: the development of mind from naive sensory awareness to the philosophical point of view, with illustrations in history, science, religion, politics, and social theory. Second quarter: the study and application of the fundamental categories expressed in the individual and the world about him. Third quarter: the application of the categories to the philosophy of mind, art, and religion. May be entered any quarter. Special permission is necessary for credit if only one quarter is taken. *Five hours a week, throughout the year. Fall and winter quarters,* Professor Kattsoff; *spring quarter,* Professor Emery.

134. INTRODUCTION TO SYMBOLIC LOGIC (5).

The new symbolic approach to the logic of classes, propositions, propositional functions, and the nature of implication. Applications of this technique in the natural and social sciences. Hours to be arranged with instructor. *Five hours a week, spring quarter.* Professor Kattsoff.

141. THE PHILOSOPHY OF MATHEMATICS (5).

Analysis of the fundamental concepts of mathematics. Its logical development; recent controversies on its foundations. *Five hours a week, fall quarter.* Professor Kattsoff.

142. A CRITICAL APPROACH TO SOCIAL PSYCHOLOGY (5). Prerequisite, at least two courses in philosophy, psychology, or sociology.

First, on the basis of scientific psychological data obtained from the study of attitudes, interests, and emotions a theory of values and aims of society will be set up and subjected to critical philosophical study. *Second,* a sociological study of existing society will exhibit its various institutions. *Finally,* these institutions will be evaluated in terms of the theory of values earlier established and necessary societal changes will be indicated. The possibility of an experimental and engineering social psychology will be discussed. (1940-1941 and alternate years, alternating with Philosophy 71.) *Five hours a week, spring quarter.* Professor Kattsoff.

171, 172, 173. ETHICS AND CIVILIZATION (5 each).

A survey of ethics, historical and contemporary. The first quarter is concerned with the beginnings of ethical standards in the historical religions of the world and the subsequent development of ethical theory. The second quarter traces the contributions to the theory of values made by the scientific developments of the last two centuries. The third quarter is devoted to contemporary ethical problems, economic, political, and personal; and the logical foundation of ethical theory. Lectures, discussion, and directed readings. Special permission of the instructor is necessary for credit if only one quarter is taken. *Five hours a week, throughout the year.* Professor Bradshaw.

Courses for Graduates

227-228-229. STUDIES IN HEGEL (15).

This course aims to consider Hegel's system as grounded in the *Logik* and exhibited in the *Phenomenologie. Five hours a week-throughout the year.* Professor Williams.

301, 302, 303. SEMINAR IN EPISTEMOLOGY, METAPHYSICS, AND PHILOSOPHY OF VALUES (3 each).

Special topics and readings will be selected each quarter in consultation with the students concerned. *Fall quarter,* Professor Kattsoff; *winter quarter,* Professor Emery; *spring quarter,* Professor Thomas.

311. SPECIAL READINGS (5).

Reading in a special field under the direction of a member of the Department.

*DEPARTMENT OF PHYSICAL EDUCATION AND ATHLETICS

Director: R. A. Fetzer.
Professor: O. K. Cornwell.
Associate Professors: R. B. Lawson, W. F. Lange.
Assistant Professors: F. T. Siewert, Herman Schnell, R. E. Jamerson, Gladys A. Beard.
Instructors: M. Z. Ronman, Miss Tisdale.

TECHNICAL ASSISTANTS IN SPORTS

R. A. Fetzer, M. D. Ranson, J. Morriss, Track and Field Sports.
R. B. Wolf, W. F. Lange, John Vaught, J. Tatum, Football.
W. F. Lange, G. E. Shepard, F. T. Siewert, Basketball.
Bunn Hearn, Baseball.
M. Z. Ronman, Boxing.
P. H. Quinlan, Wrestling and Conditioning.
J. F. Kenfield, Tennis.
R. T. Jamerson, Swimming.
C. P. Erickson, Golf.
Herman Schnell, Intramural Athletics.

The purpose of the work can be stated as follows: (1) To furnish to each student all the information about himself possible from a careful physical examination. (2) To teach him the elements of personal hygiene and public health. (3) To give special attention by way of corrective exercises to all students with physical handicaps. (4) To teach outdoor sports and leisure time recreations to all students in line with their capacities and interests. (5) To provide the necessary training for teachers in the field of health and physical education and thus help to meet the need in North Carolina for knowledge about individual and public health and to promote widespread participation in wholesome recreation.

PHYSICAL EDUCATION

Hygiene 1-2-3. PERSONAL HYGIENE (3). Required of freshmen. This course is designed to acquaint the student with the fundamental facts of personal hygiene so that he may keep his body at its highest efficiency. It is intended also to show the student how the individual and the community are protected against communicable diseases and to give him knowledge by means of which he may help in promoting health and social betterment. *One hour a week, fall, winter and spring quarters.* Professors Siewert, Schnell, Jamerson; Doctors Berryhill, Hedgepeth, Morgan, Stone.

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* The work is under the joint control of the Department of Education and the Athletic Council; for the Department of Education, Dr. H. R. Douglass, for the Athletic Council, Director R. A. Fetzer are in charge.

1-2-3. PHYSICAL EDUCATION (3). Required of freshmen.

This course is designed to develop the fundamental physical skills and is adapted on the basis of thorough physical examination to the capacities and needs of individual students. Games of low and high organization, seasonal sports, and individual corrective or remedial work are used in the course. *Two hours a week, fall, winter, and spring quarters.* Professors Lawson, Siewert, Schnell, Jamerson, Lange; Messrs. Vaught, Ronman, Ranson, Morriss, Allen, Mullis, Barclay, Shepard, Quinlan.

51. PRINCIPLES OF PHYSICAL EDUCATION (5).

A study is made in this course of the bases for physical education in the present organization of society; the relations of physical education to general education practice; standards for judging practice in physical education; and the psychological, sociological, and hygienic guides to be used in the selection of materials and methods. *Five hours a week, fall quarter.* Professor Jamerson.

51a. Laboratory work of six hours weekly is required in the coaching of track and field events. This course will present the coaching of standard track and field events for men. In addition to techniques and procedures for development of individual performers, attention is given to placement of men in a team for effective results, and to other aspects of team play and cooperation. Messrs. Fetzer, Ranson; Assistants.

52. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (5).

This course deals with problems and procedures in physical education, including classification of students, organization of program, class schedules, teaching load, equipment, records, administration of a gymnasium, and other pertinent materials. *Five hours a week, winter quarter.* Professor Jamerson.

52a. Laboratory work of six hours weekly is required in the coaching of football. This will deal with the game from the point of view of the coach, presenting fundamental training, plays, signals, offensive and defensive plans, tackling, blocking, interference, punting, drop kicking, and place kicking. Strategy in play, the technique of formations, the value and defects in various shifts, and other essentials of play will be presented. Mr. Wolf; Assistants.

53. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION (5).

This course is designed to acquaint students with various tests and measurements in the fields of health and physical education. Special attention is given to test construction, scoring, and methods of using results. Various tests now in use will be evaluated. *Five hours a week, spring quarter.* Professor Cornwell.

53a. Laboratory work for six hours weekly is required in the coaching of basketball. This course will present fundamentals of coaching in terms of shooting, passing, dribbling, footwork, and guarding. In addition, form and technique for individual positions, selecting and placing of men, offensive and defensive formations, and various styles of team play will be covered. Professor Lange; Mr. Shepard; Assistants.

61. HEALTH EDUCATION I (5).

This course presents personal and general hygiene as a means for the improvement of living. A study of the problems of living as they involve the health of the adult. Problems of the adjustment of the individual to general conditions of rural and urban life. Various aspects of public school health teaching receive consideration. *Five hours a week, fall quarter.* Professor Siewert.

61a. Laboratory work of six hours weekly is required in tumbling, apparatus activities, pyramid building, and gymnastic stunts. The course includes techniques and methods of teaching tumbling and self-testing activities. Professor Siewert.

62. HEALTH EDUCATION II (5).

This course includes a general survey of principles of sanitary science and their application to water, milk, and food; the disposal of sewage and garbage; ventilation; and school, home, and community health problems, including child and adult hygiene. *Five hours a week, winter quarter.* Professor Siewert.

62a. Laboratory work of six hours weekly is required in games of low organization. The object of this course is to develop skill in and familiarity with a wide variety of activities in physical education suitable for schools and recreation centers. Mass activities, group games, individual games, marching, and many other activities adaptable to groups differing in age and skill will be offered. Professor Siewert.

62b. Laboratory work for women includes the teaching of soccer and games of low organization, and the coaching and officiating of various sports. *Spring quarter.* Professor Beard.

63. HEALTH EDUCATION III (5).

This course presents methods and materials for the teaching of health and the handling of school health problems. How to teach and what to offer in classes in health. Discussion of the methods and subject matter used in presenting hygiene to students. Includes a study of the opportunities for integration of materials on health with other subjects of the organized curriculum. *Five hours a week, spring quarter.* Professor Schnell.

63a. Laboratory work of six hours weekly is required in games of high organization. The object of this course is to develop skill in and familiarity with a wide variety of activities in physical education suitable for schools and recreation centers. Volleyball, soccer, tag football, handball, playground ball, speedball, badminton, and archery will be offered. Professor Siewert.

64. DIRECTED TEACHING OF PHYSICAL EDUCATION (5). Prerequisite, courses to be determined by the instructor.

This course is designed to give the student experience and practical work in the classroom, gymnasium, and on the playground. Actual teaching together with the making of lesson plans, conferences with the instructor, observation assignments, oral reports, survey of material, and discussions of various techniques used make up the course content. *Five hours a week, every quarter.* Professor Siewert; Assistants.

71. ANATOMY (5).

This course is designed to teach the fundamentals of gross anatomy of the human body by means of lectures and demonstrations, using charts, models, and drawings. Students are supplied, through the cooperation of the University School of Medicine, with sets of typical bones from the human body and are permitted to use the anatomy laboratory for practical demonstrations on the human cadaver. Practical observations are made to illustrate the anatomical or common athletic injuries and methods of their treatment. Supplementary lectures are given by members of the Department of Anatomy of the Medical School. *Five hours a week, fall quarter.* Professor Lawson.

72. PHYSIOLOGY (5).

Prerequisite, Physical Education 71 or the equivalent of Zoology 41 and 42.

A lecture course in elementary physiology, covering the muscular, cardio-respiratory, nervous, gastro-intestinal, and reproductive systems. *Five hours a week, winter quarter.* Professor Lawson.

73. INDIVIDUAL PHYSICAL EDUCATION FOR MEN (5).

Theory and practice in making a program in physical education meet the needs of handicapped individuals, fundamental principles in the selection and adaptation of activities in corrective procedures, abnormal conditions which come to the attention of the physical educator, methods of examining and determining individual needs, activity programs of both formal and informal character to meet the needs in schools and colleges, will be the problems dealt with in this course. *Five hours a week, with a laboratory requirement, spring quarter.* Professor Lawson.

74. INDIVIDUAL PHYSICAL EDUCATION FOR WOMEN (5).

Anatomy and kinesiology of posture; analysis of correct anatomical positions; physical examinations; faulty posture and body mechanics; correctives in the high school; organization of a corrective program will be the problems dealt with in this course. *Five hours a week, spring quarter.* Miss Tisdale.

74a. Laboratory work of six hours is required in the coaching of baseball, tennis, and individual sports. There will be provided opportunity for the practice of the fundamental skills and team play of each. *Spring quarter.* Professor Beard, Miss Tisdale.

85a. CHILD RHYTHMICS AND ELEMENTARY DANCING FOR THE PUBLIC SCHOOLS (2½).

A study of the development of rhythm in children; building rhythmic patterns; utilizing these patterns in such dance forms as folk and dramatic dances, clog and tap dances. *Two and a half hours a week, fall quarter.* Professor Beard; Miss Tisdale.

85b. RHYTHMICS FOR PUBLIC SCHOOLS AND COLLEGES (2½).

A study of the rhythmic pattern of the body movements in the various dance forms. Materials and methods for teaching rhythmics in secondary schools and colleges. Attention will be given to folk, modern, tap, and various other forms of dancing. *Two and a half hours a week, winter quarter.* Professor Beard; Miss Tisdale.

Courses for Graduates and Advanced Undergraduates

120. PRINCIPLES OF PHYSICAL EDUCATION (3 or 2½). Prerequisite, undergraduate work in education and psychology.

The nature of physical education and its relation to general education, health education, and community recreation. A critical analysis of basic physiological, sociological, and psychological principles in terms of their application to practices and procedures in physical education. *Three hours a week, fall quarter;* or *five hours a week, first term of the Summer Session.* Professor Cornwell.

121. ADMINISTRATION OF PHYSICAL EDUCATION (5 or 2½).

Fundamental policies in the organization and administration of physical education programs. Problems in program building, classification of students, scheduling, teacher load, administration of facilities, budget and finance, and the relationship of athletics to physical education. *Five hours a week, winter quarter;* or *five hours a week, first term of the Summer Session.* Professor Cornwell; Assistants.

123. PERSONAL HYGIENE (3 or 2½). Prerequisite, basic courses in science.

A study of the problems of living as they involve the health of people. Anatomical and physiological materials pertinent to the functioning of the organism. The place of intelligent control in terms of personal health in modern civilization. Various aspects of health teaching receive consideration. *Three hours a week, fall quarter;* or *five hours a week, second term of the Summer Session.* Professors Cornwell, Siewert.

s126. INDIVIDUAL PHYSICAL EDUCATION (2½). Prerequisite, anatomy and physiology, or equivalent.

This course deals with fundamental principles in the selection and adaptation of activities in corrective procedures. Methods of examining and determining individual needs, activity program of both formal and informal character to meet the needs of various students in schools and colleges will be the problem dealt with in the course. *Five hours a week, second term of the Summer Session.* Professor Siewert.

127. INTRAMURAL AND EXTRAMURAL ACTIVITIES FOR SCHOOLS AND COLLEGES (3 or 2½).

The study of the intramural and extramural program in terms of organization and administration. A critical analysis of the seasonal sports program with a view of their justification from the standpoint of objectives, age level, and contribution to the general welfare of the students participating. *Three hours a week, spring quarter;* or *five hours a week, second term of Summer Session.* Professor Siewert.

173. (Sociology 173). PLAY AND RECREATION (5).

The theories of play, play activities, attitudes, history of the play movement, play leadership, programs, values, sex and age differences, classification of movements, application to community life. *Five hours a week, spring quarter.* Professor Meyer.

175. (Sociology 175). EXTRA-CURRICULAR ACTIVITIES (3).

Clubs, student participation in school government, physical education, publicity in school publications, commencements, many miscellaneous topics, theoretical and practical studies of institutions promoting successful programs, bibliographical materials. *Three hours a week, winter quarter.* Professor Meyer.

Courses for Graduates

220. TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION (3 or 2½).

This course endeavors to evaluate present work being done in the field of testing in physical education. Tests now in use dealing with achievement, classification, and diagnosis are discussed and statistical treatment of data is reviewed. Construction of tests forms a part of the course and consideration is given from both the point of view of research and everyday use. *Three hours a week, spring quarter; five hours a week, first term of the Summer Session.* Professor Cornwell.

221. PHYSIOLOGY OF EXERCISE (5 or 2½). Prerequisite, zoology and anatomy.

The physiology of growth and development. The effects of excesses of speed, strength, skill, and endurance on circulation, respiration, nervous system, and the body as an organism. Relation of age and sex to body function. *Five lecture and four laboratory periods a week, winter quarter;* or *similar hours and laboratory work in the first term of the Summer Session.* Professor Ferrill.

s222. PRINCIPLES OF HEALTH EDUCATION (2½). Prerequisite, adequate background in science.

This course, dealing with programs, principles, and materials of public school health, will present a wide range of scientific and educational materials for courses of study. Students will set up courses of study and programs for typical situations, and will plan cooperative programs for instruction in health in the school. *Five hours a week, second term of the Summer Session.* Professor Brown.

s224. SCHOOL AND COMMUNITY HYGIENE (2½). Prerequisite, adequate background in science.

This course includes a general survey of the fundamental principles of sanitary science and disease prevention and their application to water supply, milk, and general food supply, sewage disposal, school sanitation, and the general problems that deal with control of infectious diseases. *Five hours a week, second term of the Summer Session.* Professor Brown.

225. MODERN PROBLEMS IN PHYSICAL EDUCATION (3). Prerequisite, experience and advanced work in physical education and education.

This course is designed to give the teacher a better understanding of the current problems associated with health and physical education. Reports of committees and contributions made by individuals to the field are discussed and evaluated. *Three hours a week, winter quarter.* Professor Cornwell.

320. RESEARCH IN PHYSICAL EDUCATION (5 or 2½). Prerequisite, experience and advanced work in the field.

This course offers direction in the study of problems growing out of activities of physical education. Students who register must be experienced teachers and must have problems which they desire to study. *Five hours a week, spring quarter;* or *five hours a week, first term of the Summer Session.* Professor Cornwell.

341abc. SEMINAR COURSE (2½ each quarter). Prerequisite, adequate training and experience, and consent of the instructor.

A research course in a special field. *Three hours a week, fall, winter, and spring quarters.* Professors Cornwell, Ferrill, Brown.

*DEPARTMENT OF PHYSICS

Professors: A. E. Ruark, O. Stuhlman, Jr., K. H. Fussler, E. K. Plyler.

Assistant Professors: P. E. Shearin, R. H. Lyddane.

Teaching Fellow: D. R. McMillan, Jr.

Assistants: E. I. Howell, D. A. McGraw, T. N. Gautier, J. S. Brock, Fred Horton, T. E. Pardue.

Courses for Undergraduates

1-2-3. DESCRIPTIVE PHYSICS (12). Fulfills the freshman requirement in science; is not accepted as meeting the requirement for admission to the School of Medicine. A cultural course emphasizing the historical development of physics, and its influence on modern life and thought. Text: Black, *An Introductory Course in College Physics.*

Part I. Mechanics and Heat. *Fall quarter.*

PART II. Sound, Light, Magnetism. *Winter quarter.*

Part III. Electricity, Structure of Atoms and Molecules, leading facts of Astronomy. *Spring quarter.*

Note: All three parts must be completed in order to secure any credit.

Two lecture, one discussion, and two laboratory hours a week. Laboratory fee, $2.75 a quarter. Lectures: Professor Ruark. Discussion period: Professors Ruark, Lyddane. Laboratory: Professor Fussler; Assistants.

21-22-23. GENERAL PHYSICS (12). Prerequisite, Freshman Mathematics. Text: Foley, *College Physics.*

Part I. Mechancis of solids, liquids, gases, and heat. *Fall quarter.*

Part II. Electricity and Magnetism. *Winter quarter.*

Part III. Sound and Light. *Spring quarter.*

Note: All three parts must be completed in order to secure any credit.

Two lecture, one discussion, and two laboratory hours a week. Laboratory fee, $2.75 a quarter. Lectures: Professors Fussler, Shearin. Discussion period: Professors Fussler, Shearin; Messrs. McMillan, McGraw, Gautier; Laboratory: Professor Fussler; Assistants.

24-25. GENERAL PHYSICS (12).

A six-hour double course covering general physics in two quarters. Identical with Physics 21-22-23 in subject matter, textbook, total credit, and prerequisite work.

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* For A.B. with Major in Physics (Math. 1-2-3, Chemistry 1-2-3, Physics 21-22-23, and Math. 21-22-23, should have been completed in the General College); six courses in physics, six courses in other natural sciences including Math. 141 and, for students with mathematical tendencies, one other course in mathematics, or for students with experimental tendencies, courses in chemistry and biology; six electives from Departments not in the Division of the Natural Sciences, with English 59 and Philosophy 141 strongly recommended.

For S.B. in Physics the student should take in the General College: Physics 1-2-3 or 21-22-23; 55; 56 or 52; 42 or 54; Math. 1-2-3 and 31-32-33; two years of English, two of French or German, Social Science 1-2-3. In the junior and senior years he should take Physics 53; 52 or 56; 58; Math. 41 and 141; Chemistry 1-2-3; English 59; five and one-half electives; five to six additional courses in chemistry, mathematics, and physics.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 178.

Part 1. Mechanics of solids, liquids, and gases; Heat and Sound. *Winter Quarter.*

Part II. Electricity and Magnetism, Light. *Spring quarter.*

NOTE: Both parts must be completed in order to secure any credit.

Five lecture and three laboratory hours a week. Laboratory fee, $4.00 a quarter. Lectures: Professor Stuhlman. Laboratory: Professor Fussler; Assistants.

41. ASTRONOMY (5).

A general course in descriptive and historical astronomy; lectures and recitations, with use of lantern slides, star-maps, telescope, and other instruments. Text: Duncan, *Astronomy. Five hours a week with occasional observations, spring quarter.* Professor Fussler.

42. RADIO (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25.

Designed for amateurs and students with majors in science. Properties of electron tubes and photocells; study of basic circuits and measuring devices; transmission and reception. Television, sound movies, and industrial applications. Texts: Henney, *Principles of Radio;* and Handbook, American Radio Relay League. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $3.00.* Professor Ruark.

45. PHOTOGRAPHY (3).

A general course for amateurs, art students, prospective teachers, and others interested in photography. Study of cameras and other photographic equipment. Picture taking, developing, printing, enlarging, portraiture, technique of photographing art objects under various conditions, composition, color photography. For students attaining a reasonable mastery of the technical phases of photography, Professor Russell Smith of the Art Department will be available for instruction and consultation in photographic composition over a period of two weeks or more. Text: Mees, *Fundamentals of Photography. Two lecture and three laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Shearin.

51. X-RAY TECHNIQUE: BIOPHYSICS (6). Prerequisite, Physics 21-22-23 or 24-25.

Laboratory work in roentgenographic technique. Physical aspects of X-ray tubes and high voltage generators. Dosimetry. Primarily for students who will enter the medical profession. *Three lecture and six laboratory hours a week, spring quarter. Laboratory fee, $15.00.* Professor Stuhlman.

52. MECHANICS (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 247.

TEXT: Ericson, *Elements of Mechanics.* (1941-1942 and alternate years.) *Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Fussler.

53. OPTICS (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 247.

Geometrical and physical optics. Text: Robertson: *Introduction to Physical Optics. Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

54. MODERN DEVELOPMENTS IN PHYSICS (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25, except by permission.

Particularly for students with majors in other fields, who wish a knowledge of twentieth-century physics. *Five hours a week, spring quarter.* Professor Lyddane.

55. ELECTRICITY AND MAGNETISM (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 247.

A course suited to the needs of students in all sciences. Laboratory work includes the use of direct current instruments; alternating current phenomena, and radio experiments. Text: Loeb, *Fundamentals of Electricity and Magnetism. Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Fussler.

56. HEAT (5). Prerequisite, Physics 1-2-3 or 21-22-23 or 24-25; S.B. students consult footnote, page 247.

Temperature measurements, calorimetry, radiation, heat conduction, elements of kinetic theory of gases and of thermodynamics. Text: Barton, *Heat. Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $3.00.* Professor Plyler.

57. BIOPHYSICS (5). Prerequisite, Physics 21-22-23 or 24-25.

Especially for students who expect to enter the medical profession. Physics of the human sense organs; illumination, radiant energy, calorimetry, the optical system of the microscope; audiometry, medical applications of electricity; molecular physics in relation to biology. *Two lecture, one discussion, and four laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

58. SOUND (5). Prerequisite, Physics 1-2-3, or 21-22-23 or 24-25, and 55 or 52.

Sound measurements, applications to sound reproducers and recorders; sound ranging, supersonic waves, the physics of musical instruments, the human ear and its defects. Text: Colby, *Sound Waves and Acoustics. Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Dr. Shearin.

91, 92. RESEARCH FOR SENIORS (5 each).

Laboratory fee, $5.00. Professors Fussler, Plyler, Ruark, Stuhlman, Shearin, Lyddane.

Courses for Graduates and Advanced Undergraduates

101. INTRODUCTION TO MATHEMATICAL PHYSICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56, 58.

Mathematical treatment of dynamics, statistical mechanics, thermodynamics, and electricity. Text: Page, *Introduction to Theoretical Physics.* (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Plyler.

105. INDUSTRIAL PHYSICS (5). Prerequisite, three of the courses Physics 52, 53, 55, 56, 58, except by permission.

Applications of physics to manufacturing control and research in industry. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Ruark.

106. PHYSICAL MEASUREMENTS AND TECHNIQUES (5). Prerequisite, three of the courses Physics 52, 53, 55, 56, 58, except by permission.

Work on precision instruments and important research procedures, such as vacuum technique, ionization measurements, and use of spectrographic equipment; oscillographic studies and electron tube applications. *Ten laboratory hours a week, winter quarter. Laboratory fee, $5.00.* Professor Ruark; other members of the staff.

110. PHYSICAL MECHANICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56, 58.

Lectures, problems. Text: Lindsay, *Physical Mechanics.* (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Plyler.

120. HEAT AND INTRODUCTORY THERMODYNAMICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Conduction of heat, kinetic theory, and thermodynamics. More advanced and detailed than Physics 56, with emphasis on theory rather than experiment. Text: Saha and Srivastava, *Heat.* (1940-1941 and alternate years.) *Four lecture and two laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Plyler.

140. ELECTRICITY AND MAGNETISM (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56, 58.

Electrostatics, electrodynamics, and magnetic phenomena. Text: Page and Adams, *Principles of Electricity.* (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Plyler.

141. ADVANCED ELECTRICITY AND MAGNETISM (5). Prerequisite, Physics 140.

Continuation of Physics 140, with laboratory work, including high frequency measurements. Text: Page and Adams, *Principles of Electricity.* (1941-1942 and alternate years.) *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $3.00.* Professor Plyler.

150. PHYSICAL OPTICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Diffraction, interference, polarization, resonance radiation, scattering, emission, and absorption; the electromagnetic theory of light. Text: Wood, *Physical Optics.* (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Lyddane.

153. OPTICS (5). Prerequisite, Physics 21-22-23 or 24-25.

Identical with Physics 53, except that additional laboratory work and problems are required of graduate students enrolling in 153. *Four lecture and four laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professor Stuhlman.

160. ELECTRONICS AND ATOMIC PHYSICS (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Ionization phenomena; the electron and other elementary particles, photo-electric effect, thermionics, isotopes, elementary quantum theory, absorption and emission of radiant energy. Zeeman and Stark effects, X-rays, wave properties of matter, radioactivity. Text: Harnwell and Livingood, *Experimental Atomic Physics. Five hours a week, winter quarter.* Professor Stuhlman.

161. RADIOACTIVITY (5). Prerequisite, Calculus and one of the following: Physics 52, 53, 55, 56.

Radioactive elements and their radiations; neutrons, positrons, artificial disintegration, artificially radioactive elements; their use as chemical indicators; cosmic rays. Text: Rasetti, *Introduction to Nuclear Physics.* (1941-1942 and alternate years.) *Three lecture and four laboratory hours a week, fall quarter.* Professor Ruark.

170. X-RAYS (5). Prerequisite, Calculus and Physics 53, 55, and 160, except by permission.

Optical properties of X-rays, absorption and scattering, X-ray spectra, energy levels, and transition probabilities; crystal structure determination with X-rays and electron waves; industrial applications. Text: Compton and Allison, *X-Rays in Theory and Experiment.* (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Ruark.

Courses for Graduates

201. BOUNDARY PROBLEMS IN CLASSICAL PHYSICS (5). Prerequisite, Mathematics 141, 171; Physics 140, and either 101 or 110; Mathematics 221 is desirable.

Unified treatment of the partial differential equations of physics; their solution by orthogonal functions; potential theory; operational methods; integral equations. Text: Webster, *Partial Differential Equations of Mathematical Physics.* (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Ruark.

220. KINETIC THEORY (5). Prerequisite, Mathematics 141; Physics 120, except by permission.

Ideal gases, Maxwell's law, conduction in gases, viscosity, flow in tubes. Classical and quantum statistics; elementary applications of the latter, leading up to the more detailed Physics 271. Text: Loeb, *Kinetic Theory of Gases.* (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Plyler.

222. THERMODYNAMICS (5). Prerequisite, Mathematics 141; Physics 120, except by permission.

Continuation of Physics 120 with numerous applications. Free energy, Nernst heat theorem, equilibria, applications to solutions and systems with several variables. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Plyler.

240. THEORY OF ELECTRICITY AND MAGNETISM (5). Prerequisite, Mathematics 141; Physics 140, 141.

Solution of electrostatic problems by conjugate functions and spherical harmonics. Steady states and transients in networks and cables. The field equations; moving charges, radiation. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Ruark.

260. ATOMIC AND MOLECULAR STRUCTURE (5). Prerequisite, Calculus; Physics 53 (or 153), 101 or 110, 160, except by permission.

Experimental foundations of quantum mechanics; quantum interpretation of atomic spectra; general introduction to wave mechanics. Text: Ruark and Urey, *Atoms, Molecules, and Quanta.* (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Lyddane.

261. QUANTUM MECHANICS, PART I (5). Prerequisite, Mathematics 141; Physics 260. Mathematics 221 is desirable.

Perturbation theory; detailed study of many-electron atoms and of simple molecules; dispersion; susceptibilities; collision problems; matrices; transformation theory. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Lyddane.

262. QUANTUM MECHANICS, PART II (5). Prerequisite, Physics 261.

Statistical methods of treating atomic and molecular problems; relativistic quantum mechanics of the electron; further treatment of collision problems; absorption and emission of radiation; quantum theory of the electromagnetic field. Chief Reference: Heitler, *Quantum Theory of Radiation.* (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Lyddane.

263. BAND SPECTRA (5). Prerequisite, Mathematics 141; Physics 160.

Experimental methods; theoretical study of diatomic and polyatomic molecules as revealed by molecular spectra; emphasis on infrared spectra. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Plyler.

264. SPECTROSCOPY OF THE INFRARED (5). Prerequisite, Mathematics 141; Physics 53.

Detailed study of radiation sources, photographic work, detectors, prism and grating spectrometers. (1941-1942 and alternate years.) *Two lecture and six laboratory hours a week, spring quarter.* Professor Plyler.

267. CURRENT ADVANCES IN PHYSICS (5). Prerequisite, Mathematics 141; Physics 160.

Lectures and discussions on selected fields of physics which are advancing rapidly. *Five hours a week, fall, or winter, or spring quarter.* Professor Ruark or Professor Lyddane.

268. NUCLEAR PHYSICS (5). Prerequisite, Physics 160 and 161, except by permission.

Theory of artificial and radioactive disintegrations; gamma rays and positrons; nuclear energy levels; theory of nuclear structure. Reports on outside reading of recent research. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Ruark.

271. THEORY OF THE SOLID AND LIQUID STATES (5). Prerequisite, Mathematics 141; Physics 120.

The crystalline state; properties of metals from the standpoint of quantum statistics; spectra of liquids and solids; Debye-Hückel theory of electrolytes; problems and reports. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Lyddane.

301. RESEARCH (5 or more).

Under this heading may be credited the work of a single quarter or that of one or more years. Theoretical or experimental work on a subject approved by the departmental staff. Reading knowledge of German required. *Ten or more laboratory or computation hours a week, any quarter.* Professors Fussler, Plyler, Ruark, Stuhlman, Lyddane.

NOTE: Advanced instruction in DYNAMICS is provided by Mathematics 216 (Professor Hobbs), which may be taken for credit in either mathematics or physics.

*DEPARTMENT OF POLITICAL SCIENCE

Professors: W. W. PIERSON, H. M. WAGSTAFF, E. J. WOODHOUSE, K. C. FRAZER.
Visiting Professor: ERVIN HEXNER.
Associate Professors: W. S. JENKINS, C. B. ROBSON, P. W. WAGER, J. W. FESLER.
Assistant Professor: E. A. MAUCK.
Teaching Fellow: J. W. REID.
Assistant: M. C. HUGHES.

Courses for Undergraduates

31-32-33. INTRODUCTION TO POLITICAL LIFE—LOCAL, NATIONAL AND INTERNATIONAL (9).

A survey of the institutions and problems of political life in the local area, the state, the nation, and the international community. The emphasis is on the actual and vital relations between the citizen and government with a view to stimulating an intelligent and thoughtful interest in the politics of the present. Each member of the department lectures in the field of his specialization and there is directed reading and written work on the basis of a syllabus prepared cooperatively. The student will not be required to buy a text-book but will pay a book fee of one dollar ($1.00) a quarter. Sophomore elective. *Three hours a week, through the year.* Professors Robson (chairman), Pierson, Wagstaff, Woodhouse, Frazer, Jenkins, Fesler.

41-42. INTRODUCTION TO POLITICAL LIFE—LOCAL, NATIONAL, AND INTERNATIONAL (10).

Same as Political Science 31-32-33 above in content, but given as a double course in two quarters. *Five hours a week, winter and spring quarters.* Professor Robson.

51. THE GOVERNMENT OF THE UNITED STATES (5).

An intensive study of the constitutional basis, the historical development, the organization, operation, and problems of the federal government of the United States. Textbooks, lectures, readings, and reports. Credit may not be obtained for 51 by students who offer credits in 31-32-33 or 41-42. *Five hours a week, each quarter.* Professors Jenkins, Frazer, Mauck, Fesler, Wager, Robson.

52. THE GOVERNMENTS OF EUROPE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the principal governments of Europe including Great Britain, France, Germany, Italy, and Russia. Special attention is given to comparisons and contrasts among these governments and with government in the United States. Textbooks, lectures, readings, and reports. *Five hours a week, winter or spring quarter.* Professors Robson, Mauck.

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* The requirements for A.B. with a major in Political Science are Political Science 31-32-33, or the equivalent, and six additional courses. These six courses must be approved by the departmental adviser on the basis of the following plan: (1) there must be distribution among at least four of the groups into which the advanced courses offered by the department fall, namely, local and state government, federal government, foreign governments, political theory, historical jurisprudence, international politics, and public administration; and (2) there must be concentration of at least two courses in one of these fields.

81. AMERICAN STATE GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study in the principles, organization, and administrative methods of state government. In connection with the course will be a special study of the government of North Carolina. Lectures, readings, and reports. *Five hours a week, fall or spring quarter.* Professor Jenkins.

86. INTERNATIONAL RELATIONS AND WORLD POLITICS (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

This course is designed to serve as an introduction to the study of international affairs. Its purpose is to lay the foundations for a general knowledge of the subject. *Five hours a week, spring quarter.* Professor Frazer.

91. PHILOSOPHY OF THE STATE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

For description see Philosophy 91. Professor Thomas (of the Department of Philosophy).

Courses for Graduates and Advanced Undergraduates

101. PUBLIC ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

General problems and principles of public administration. Structural problems: the separation of powers, organization of administrative agencies, areal problems of administration. Personnel problems: recruitment, promotion, removal, classification, civil servant unions. Financial problems: budgeting, auditing, purchasing, taxing, borrowing. Administrative law: growth and significance of administrative legislation and adjudication. *Five hours a week, fall quarter.* Professors Fesler, Mauck.

121. THE GOVERNMENT OF ENGLAND (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The objective of this course is a knowledge of the development and operation of the English government. Local, national, and imperial aspects of England's governmental practice will receive attention. Resemblances and contrasts between her government and that of our own country will be pointed out for the practical lessons which the parallel supplies. Lectures and readings. *Five hours a week, fall quarter.* Professor Wagstaff.

122. GOVERNMENT AND ADMINISTRATION OF EUROPEAN CITIES (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general consideration of principles and methods of social control in the municipalities of Great Britain, France, and Germany, with some attention to those of other nations. Comparisons with American conditions. *Five hours a week, spring quarter.* Professor Woodhouse.

123. COMPARATIVE GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51-52.

A comparative study of the principles, structure and operation of the governmental systems of the world, with special attention to those of continental Europe. *Five hours a week, winter quarter.* Professors Hexner, Robson.

132. AMERICAN MUNICIPAL GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

An historical survey of the development of governmental structure, theory, and functions in American municipalities, and careful analysis of existing municipal conditions, with special attention to city and town government in North Carolina. Each student will make an intensive study of his own or some other city or town. *Five hours a week, fall quarter.* Professor Woodhouse.

133. AMERICAN MUNICIPAL ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Special study of the principles and problems of administration in American municipal corporations of such functions as police, public education, charities and correction, local improvements, public health, finances, with emphasis on city and town administration in North Carolina. Each student will select and study exhaustively a municipal problem in one municipality. *Five hours a week, winter quarter.* Professor Woodhouse.

134. COUNTY GOVERNMENT AND ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the forms of organization, the functions, and the operation of county government in the United States and especially in North Carolina in their historical development, but with special emphasis on present conditions and tendencies and on possible improvements. Each student will be required to study, as extensively and intensively as possible, the government and administration of one county, preferably his home county, and to put his results into essay form. Textbooks, lectures, and readings. *Five hours a week, winter quarter.* Professor Wager.

141. INTRODUCTION TO INTERNATIONAL LAW (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general survey of the history, the sources, and the content of international law. *Five hours a week, fall quarter.* Professor Frazer.

142. INTERNATIONAL ORGANIZATION AND INSTITUTIONS (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of all important international governmental institutions. The administrative unions, the League of Nations, and the international courts are examined and discussed. Lectures, readings, and reports. *Five hours a week, winter quarter.* Professor Frazer.

144. THE ORGANIZATION AND CONDUCT OF THE FOREIGN RELATIONS OF THE UNITED STATES (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The machinery of foreign relations, organs for conduct, and the foreign service are analyzed and discussed. Foreign policies are discussed from the standpoint of their formation and content. *Five hours a week, spring quarter.* Professor Frazer.

145. PRIVATE INTERNATIONAL LAW (5). Prerequisite, Political Science 141 or the equivalent.

This course is concerned with the legal practice controlling situations in which private persons are affected by the conflict between the laws of different national states. The practice of the several nations is studied in this connection, and illustrated by cases. *Five hours a week, spring quarter.* Professor Frazer.

151-152. THE ELEMENTS OF POLITICAL SCIENCE (10). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general course in which a study is made of the principles of political science and of the important theories respecting the nature, origin, forms, and ends of the state and of government. An examination of the literature of the subject will be made, supplemented by students' reports on selected political theorists. Lectures, textbooks, and readings. *Five hours a week, fall and winter quarters.* Professor Pierson.

154. DEVELOPMENT OF THE ENGLISH CONSTITUTION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A general course surveying the origin and development of the constitutional machinery of the British monarchy. Emphasis will be laid on the successive constitutional landmarks from the Norman Conquest to the Parliament Act of 1911. Lectures, textbooks, and readings. *Five hours a week, winter quarter.* Professor Wagstaff.

155. THE CONSTITUTION OF THE UNITED STATES (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A course in constitutional law covering by means of lectures, textbooks, and cases the fundamental principles of constitutional interpretation and practice in the United States. *Five hours a week, winter quarter.* Professor Jenkins.

156. CONTEMPORARY PROBLEMS IN GOVERNMENT (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the present organization and actual operations of our national and state governments through the day to day acts of their departments as reported in the United States Daily, other newspapers, periodicals, and available official reports. Lectures, readings, and reports. *Five hours a week, spring quarter.* Professor Woodhouse.

157. HISTORICAL JURISPRUDENCE I (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Ancient and medieval law; brief study of Egyptian, Babylonian, Greek, and Hebrew law, chiefly in their methods and agencies of formulation and administration; detailed study of the historical evolution of Roman law, of its fate during the Middle Ages, and of its spread and influence in the Modern World; some consideration of the parts played in medieval Europe by the Germanic, Slavonian, and Celtic legal systems. *Five hours a week, winter quarter.* Professor Woodhouse.

158. HISTORICAL JURISPRUDENCE II (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Anglo-American law; historical study of the development of English law, legislation, courts, and court procedure from the Anglo-Saxon Conquest of England to the settlements in North America by the English; and of the evolution of the legal system in these English colonies and in the United States to the present day. *Five hours a week, spring quarter.* Professor Woodhouse.

159. THE BRITISH EMPIRE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the structure of the British Empire, its evolution into a British Commonwealth of Nations, and an examination of the bonds which hold it together. *Five hours a week, spring quarter.* Professor Wagstaff.

165 (153). POLITICAL THOUGHT OF THE EIGHTEENTH CENTURY (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

An analysis of the development of liberal and democratic political thought, with emphasis on the ideas of the American and French Revolutions. Lectures and reports. *Five hours a week, winter quarter.* Professor Pierson.

166. POLITICAL THOUGHT OF THE NINETEENTH CENTURY (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

An analysis of the development of the theory of constitutional democracy together with an examination of the principal lines of criticism of that form of government which were presented in the century. *Five hours a week, spring quarter.* Professor Robson.

175. POLITICAL PARTIES AND PUBLIC OPINION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

History, organization, and policies of major and minor parties; nominating systems; ballot and election laws; party finance; political machines; influence of party upon executive and legislative branches of government. Special emphasis upon the relation of party to administration and to current American politics. Lectures, readings, and reports. *Five hours a week, fall quarter.* Professor Woodhouse.

181. RECENT NATIONAL POLICY AND ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The problems of policy faced by the Federal Government in recent years, together with the administrative problems encountered in executing the policies enacted. These problems are treated as they arise in the fields of agriculture, mineral resources, money and banking, government finance, industrial regulation, public works, housing, consumption, public utilities, collective bargaining, regulation of labor conditions, social security, relief of unemployment, and foreign affairs. *Five hours a week, spring quarter.* Professor Fesler.

185. FINANCIAL ADMINISTRATION (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A treatment of the fiscal aspects of public administration, including not only the assessment and collection of taxes, but also control of expenditures. Thus attention will be given to public purchasing, custody of funds, debt administration, budgets and audits, as well as tax administration. *Five hours a week, winter quarter.* Professor Wager.

The following courses offered by the Department of Economics will receive credit in Political Science in fulfillment of requirements for undergraduate and graduate majors: Economics 141. Public Finance (5). Professor Heer; Economics 142. Fiscal Organization and Administration (5). Professor Heer; Economics 143. Problems in Public Finance (5). Professor Heer; Economics 197. Government and Business (5). Professor Hobbs.

Courses for Graduates

210. PUBLIC ADMINISTRATION OF RESOURCES (5).

A course devoted mainly to an analysis of the way in which publicly owned resources are being administered by federal, state, and local governments. Among the subjects treated are: alienation of the public domain; the conservation movement; acquisition of a new public domain; and the work of agencies administering land, water, forest, mineral, wild life, and recreational resources. Some attention will be given also to planning agencies and regulation of the use of private land. *Five hours a week, spring quarter.* Professor Wager.

221. ADMINISTRATIVE LAW (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A study of the growth of legislation and adjudication by administrative agencies; its relation to the traditional theory of separation of powers; the extent of judicial control over administrative action in such fields as utility regulation, taxation, the exclusion and expulsion of aliens. Reports on particular administrative agencies. *Five hours a week, winter quarter.* Professor Fesler.

225. PUBLIC PERSONNEL ADMINISTRATION (5).

Designed primarily for students planning to enter the public service, the course will intensively investigate the problems of public personnel administration. Particular emphasis will be placed on policies and techniques of recruitment, classification, compensation, promotion, transfer, separation, provision of satisfactory working conditions, and organization of the personnel agency. *Five hours a week, spring quarter.* Professor Fesler.

231. THE LEGISLATIVE PROCESS (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A course dealing with the theory and practice of legislation in the United States, with a comparative study of law-making in the governments of other countries. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Jenkins.

235. THE JUDICIAL PROCESS (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A course treating of the structure, practice, and theory of the judicial branch of governments in the British Empire and the United States. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Jenkins.

241. INTERNATIONAL LAW (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

The materials of international law will be examined. Leading cases, treaties, and international legislative acts constitute the subjects of study. *Five hours a week, winter quarter.* Professor Frazer.

301abc. MODERN INTERNATIONAL RELATIONS (9). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Seminar. An analysis will be made of the major problems of international relations. Emphasis will be placed upon the elements of nationalism and internationalism, imperialism, and the settlement of international disputes. *Conferences, two hours a week, fall, winter, and spring quarters.* Professor Frazer.

305. SEMINAR IN COUNTY ADMINISTRATION (5). Prerequisite, Political Science 134, or two other courses in Political Science.

Research, reading, and conferences on special phases of county organization and administration. *Five hours a week, fall or winter or spring quarter.* Professor Wager.

311abc. AMERICAN POLITICAL THEORY (9). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A seminar course respecting the political philosophy which has been developed in the United States. In the fall quarter the political theory of the colonial period and the American Revolution will be studied; in the winter quarter attention will be given to the theories associated with the formation of the Constitution and its early interpretation, the nature of the Union, and the slavery dispute; in the spring quarter the political theory of the Civil War and the contemporary United States will be considered. Lectures, readings, reports. *Conferences, three hours a week, fall, winter, and spring quarters.* Professor Pierson.

321abc. STATE AND LOCAL GOVERNMENT (9). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

Seminar course respecting the various functions, organs, and problems of public administration in the States and in their sub-divisions. Comparison of various attempts to reorganize the state administrative system. *Conferences, three hours a week, fall, winter, and spring quarters.* Professor Woodhouse.

341. SEMINAR COURSE (5). Prerequisite, Political Science 31-32-33 or 41-42 or 51.

A research course in a special field under the direction of a member of the department.

*DEPARTMENT OF PSYCHOLOGY

Professors: J. F. Dashiell, H. W. Crane, English Bagby.
Associate Professor: R. J. Wherry.
Assistant Professor: A. G. Bayroff.
Instructors: R. L. Bolton, William Daniel, Clarence Hagen.
Teaching Fellow: R. C. Rogers.
Assistants: Mildred C. Mendenhall, Mrs. Winifred Black.

Courses for Undergraduates

**21-22-23. GENERAL PSYCHOLOGY (12).

The aim of the course is to present the essential phenomena of psychology as an experimental natural science. Emphasis is placed on the organic relationships within the whole field and upon some crucial problems of daily life. Lectures, textbooks, laboratory. Sophomore elective. *Three lecture and demonstration hours and two laboratory hours a week, throughout the year. Laboratory fee, $2.00 a quarter.* Professors Bagby, Wherry; Messrs. Bolton, Daniel, Hagen, Rogers.

**24-25. GENERAL PSYCHOLOGY (12).

Identical in content with sequence 21-22-23, but arranged in a two-quarter sequence. *Five lecture and demonstration hours and four*

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* For A.B. with a major in Psychology as a Natural Science two programs are offered. In each the student is required to take six courses chosen from the allied fields of mathematics, physics, zoology, and the School of Medicine. Required courses in the Major Department are: in the first program (for students with more general interests); 190 and 151 or 152 or 153, with any four undergraduate courses exclusive of 21-22-23 or 24-25; in the second group (for students with applied interests); 146, 147, and 151 or 152 or 153, with three additional courses selected from 126, 135, 136, 138, 140 and 145.

For A.B. with major in Psychology as a Social Science: six courses within the Department of Psychology, including 190 and 151, or 152, or 153; 6 courses in other social sciences, preferably economics, education, philosophy, and sociology; 6 electives from outside the Division of the Social Sciences, preferably in mathematics, physics, and zoology.

** Courses 21-22-23 or 24-25 may be counted only in the Division of Natural Sciences. However, credit for lectures only when taken at another institution is to be counted only in the Division of Social Sciences, except in the case of students desiring a major in Psychology who will then be expected to complete the laboratory as well as the lecture requirements of these courses.

laboratory hours a week, winter and spring quarters. Laboratory fee, $3.00 a quarter. Professor Bayroff.

NOTE: General Psychology is prerequisite for all other courses in the department.

40. THE PSYCHOLOGY OF PERSONALITY (5).

This course is concerned primarily with the factors which determine the form and quality of the human personality. *Five hours a week, winter quarter.* Professor Bagby.

Courses for Graduates and Advanced Undergraduates

125. ANIMAL BEHAVIOR (5).

A survey of behavior in the various phyla, followed by a critical survey of experimental problems concerning vertebrates including man. The course is of general psychological character, emphasizing central concepts. Typical experiments. *Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $2.00.* Professor Bayroff; Mr. Daniel.

126. CHILD DEVELOPMENT (5).

A survey of experimental and clinical contributions in the contemporary field of child-development, including foetal, neonate, pre-school, school, and adolescent ages. Experimental observations. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $1.50.* Professor Dashiell; Mrs. Black.

130. ELEMENTARY PSYCHOLOGICAL STATISTICS (5).

Measures of distribution, reliability, simple correlation, and regression. Training given in graphic work and use of statistical machines. The use and misuse of statistical methods in handling psychological problems are stressed. *Three lecture and four laboratory hours a week, fall quarter. Laboratory fee, $1.00.* Professor Wherry; Dr. Mendenhall.

135. ECONOMIC PSYCHOLOGY: PERSONAL AND PUBLIC RELATIONS (5).

Psychological problems of business and industry as they relate to the employer, the employee, and the public. An intensive survey of problems, prediction, and control. *Four lecture and two laboratory hours a week, spring quarter. Laboratory fee, $1.50.* Professor Wherry; Mr. Bolton.

138. LEGAL PSYCHOLOGY (5).

Some of the major problems of a psychological nature with which the law is concerned. A natural science approach leading ultimately to implications of practical legal character. Readings, lectures, and experiments. (1941-1942 and alternate years.) *Five hours a week, spring quarter. Laboratory fee, $2.00.* Professor Dashiell.

144. MENTAL HYGIENE (5).

A genetic approach to behavior problems in relation to factors found in infancy, pre-school, school, and adult periods. Case material is used with direct applications to problems of the social service worker, and also the parent and the educator. *Five hours a week, fall quarter.* Professor Crane.

145. ABNORMAL PSYCHOLOGY: FEEBLE-MINDEDNESS (5).

The psycho-neural aspects of feeble-mindedness, and its importance to problems of education, dependency, and delinquency. (1940-1941 and alternate years.) *Five hours a week, winter quarter. Laboratory fee, $1.00.* Professor Crane.

146. ABNORMAL PSYCHOLOGY: PSYCHONEUROSES AND PSYCHOSES (5).

Attention is given to major and minor abnormalities and to their occurrence in various specific psychoses. *Five hours a week, spring quarter. Laboratory fee, $1.00.* Professor Crane.

147. ABNORMAL PSYCHOLOGY: METHODS OF MENTAL EXAMINATION (5).

The various psychological methods used in the clinical study of individuals, including specialized as well as general defects. Lectures, experiments, readings. *Four lecture and two laboratory hours a week, winter quarter. Laboratory fee, $3.00.* Professor Crane; Mr. Hagen.

151, 152, 153. ORIGINAL PROBLEMS (5 each).

To the student who finds himself especially interested in some particular problem of psychology, opportunity is here offered for experimental, clinical, or statistical study. May be elected any quarter. *One lecture and eight laboratory hours a week, fall, winter, or spring quarter. Laboratory fee, $3.00 a quarter.* Professors Dashiell, Crane, Bagby, Wherry, Bayroff.

191. HISTORICAL SURVEY OF PSYCHOLOGY (5).

From Greek thinkers through modern times; with emphasis on experimental, clinical, and theoretical developments of the nineteenth century. Readings in sources, especially Wundt, Ebbinghaus, Galton, Janet, James. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Dashiell.

192. CONTEMPORARY PSYCHOLOGICAL TRENDS (5).

A review of recent American and European treatments of psychological problems. Readings in Titchener, Watson, Freud, Köhler and Koffka, Lewin, Spranger, Jaensch, Klages, and others. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Dashiell.

Courses for Graduates

201, 202. EXPERIMENTAL METHODS AND PROCEDURES (5 each).

Training in laboratory methods directed to classical problems. Course 201 will cover: psychophysics, sensory qualities, perception, attention, and reaction time. Course 202 will cover: acquisition of skills, memorizing, conditioning, thought, fatigue, and emotion. Courses 201 and 202 to be offered in alternate years. *One lecture and eight laboratory hours a week, fall quarter. Laboratory fee, $3.00.* Professors Dashiell, Bayroff.

205. PHYSIOLOGICAL PSYCHOLOGY (5).

An intensive study is made of the neural mechanism as a basis of understanding both the mental and the reaction phenomena of psychology. (1941-1942 and alternate years.) *Equivalent of six hours a week, winter quarter. Laboratory fee, $3.00.* Professor Crane; Mr. Bolton.

208. SOCIAL PSYCHOLOGY (5).

A brief historical survey is followed by an attempt to identify the psychological processes underlying the more important social phenomena. Pertinent experimental work is examined. Following this the social factors in individual personality development are considered. *Five hours a week, spring quarter.* Professor Bagby.

230. ADVANCED PSYCHOLOGICAL STATISTICS (5).

Intensive studies of analysis by correlation, techniques for selection, criteria, reliability, and curve fitting. For students interested in advanced statistical research. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $1.00.* Professor Wherry.

234. MATHEMATICAL PSYCHOLOGY (5).

A survey of psychophysical methods, sensation theories, measurement of attitudes, factor analysis, learning and growth curves, topology, and mathematical biophysics. *Three lecture and four laboratory hours a week, spring quarter.* Professor Wherry.

251, 252, 253. RESEARCH IN PSYCHOLOGY (5 each). Prerequisite, Psychology 201 or 202.

Opportunity will be given for the experimental, clinical, or statistical investigation of special problems along the line of the individual student's interests. *Ten laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 a quarter.* Professors Dashiell, Crane, Bagby, Wherry, Bayroff.

325. SEMINAR (5).

An advanced course devoted to the extensive or intensive survey of some limited problem or field of psychology. The problem studied will be varied from year to year. *Five hours a week, fall, or winter, or spring quarter, to be specially announced.* Professors Dashiell, Wherry, Bayroff.

341-342. ADVANCED RESEARCH (10).

Experimental, clinical, or statistical research to be done by advanced graduate students only. *Ten laboratory hours a week, any two quarters.* Professors Dashiell, Crane, Bagby, Wherry, Bayroff.

The student is referred also to courses in Educational Psychology, in Social Psychology, in Neurology and Physiology, and in Statistics, listed in other departments of the University.

DEPARTMENT OF ROMANCE LANGUAGES

Professors: W. M. DEY, S. E. LEAVITT, U. T. HOLMES, N. B. ADAMS, H. R. HUSE, J. C. LYONS (Secretary).

Associate Professors: H. H. STAAB, R. S. BOGGS, S. A. STOUDEMIRE, W. L. WILEY.

Assistant Professor: R. W. LINKER.

Instructors: J. L. SMITH, T. E. WRIGHT, J. E. CARROLL, F. C. HAYES, W. D. CREECH, JR., A. G. ENGSTROM, R. D. WHICHARD, C. DEW. ELDRIDGE, E. D. HEALY, R. G. LEWIS, E. F. MOYER, D. S. WOGAN, W. B. NAPIER, J. W. HASSELL, JR., F. M. DUFFEY, D. F. MCDOWELL, J. J. GUILBEAU, W. G. BURKS, G. W. POLAND.

Teaching Fellows: *JACQUES HARDRÉ, W. R. LANSBERG, A. H. YARROW, D. H. WALTHER.

**FRENCH

Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE FRENCH (†9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate French (11-12-13). The completion of French 1-2-3 gives credit for Intermediate French. *Six hours a week, through the year.* Professors Lyons, Wiley, Linker; Messrs. Smith, Wright, Carroll, Creech, Engstrom, Whichard, Eldridge, Healy, Lewis, Moyer, Napier, Hassell, Lansberg.

NOTE: No student is permitted to take French 1 or 2 or 3 and Spanish 1 or 2 or 3 at the same time.

Attention is called to French 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE FRENCH (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and Sophomore elective. *Three hours a week, through the year.* Professors Huse, Staab, Wiley, Linker; Messrs. Smith, Wright, Carroll, Creech, Engstrom, Whichard, Eldridge, Healy, Lewis, Moyer.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially qualified for such study. Sophomore elective. *Three hours a week, through the year.* Professor Wiley.

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* Resigned Oct. 15, 1939, to engage in military service overseas.

** Students interested in having a major in French will please consult Dr. J. C. Lyons, Departmental Adviser.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 178.

† No credit is allowed towards a degree for the elementary portion of French 1-2-3. Tuition is charged, however, for *six hours* a week, the actual time devoted to instruction.

21-22-23. ADVANCED FRENCH (9). Prerequisite, French 1-2-3, or 11-12-13, or the equivalent.

Masterpieces of French Literature with selected readings from representative authors. Sophomore elective. *Three hours a week, through the year.* Professors Dey, Huse, Lyons, Wiley, Linker; Messrs. Smith, Carroll, Creech, Engstrom, Whichard, Healy, Lewis, Moyer.

24-25. COMMERCIAL FRENCH (6). Open only to students who plan to enter the School of Commerce. Prerequisite, French 21.

The object of this course is to give the student practical training in modern French. Newspaper and magazine articles dealing with the life and customs of the country are read. Practice in social and commercial correspondence. French 25 is largely conducted in French. *Three hours a week, winter and spring quarters.* Professor Staab.

51. FRENCH CONVERSATION AND COMPOSITION (5). Prerequisite, French 23.

The object of this course is to provide students with an opportunity to acquire practice in spoken French. Discussion in French on subjects of general interest. Composition and outside reading. *Five hours a week, fall or spring quarter.* Professor Lyons.

52. FRENCH CIVILIZATION (5). Prerequisite, French 51.

A rapid survey of the history of France, with emphasis on political and economic developments necessary to an understanding of the present situation. History and discussion of French institutions, with some reference to the history of French art and French music. All lectures, discussions, and reports on collateral reading are in French. *Five hours a week, winter quarter.* Professor Lyons.

55. REVIEW OF GRAMMAR AND SYNTAX (5). Prerequisite, French 23.

This course is primarily for teachers, and is open to juniors and seniors who intend to teach French. It consists of an intensive review study of the elements and fundamentals of French grammar and syntax. Before registering for this course, students must secure the permission of the instructor. *Five hours a week, winter quarter.* Mr. Smith.

71. SURVEY OF FRENCH LITERATURE I (5). Prerequisite, French 23.

A survey of French literature from the beginnings to 1700, with special emphasis on the prose literature of the classical period. This course (together with French 72) is intended to provide undergraduate students with a comprehensive knowledge of French literature, and to serve as a background course for those who intend to do further work in the field. Open to juniors and seniors. *Five hours a week, fall or spring quarter.* Professors Huse, Lyons.

72. SURVEY OF FRENCH LITERATURE II (5). Prerequisite, French 71.

A continuation of the preceding survey course covering the period since 1700. This course alternates each quarter with French 71. Open to juniors and seniors. *Five hours a week, fall or winter quarter.* Professors Dey, Wiley.

Courses for Graduates and Advanced Undergraduates

109. THE FRENCH NOVEL (5). Prerequisite, French 72.

A study of the development of the novel in France. Lectures, readings, reports. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Dey.

115. FRENCH LYRIC POETRY (5). Prerequisite, French 72.

A study of French lyric poetry, beginning with Villon. Lectures, readings, reports. *Five hours a week, spring quarter.* Professor Huse.

126. HISTORY OF THE FRENCH LANGUAGE (5). Prerequisite, French 72.

A general survey from the origins to the present day, with especial emphasis upon the period, 1500-1900; the influence of the Erudits, Precieuses, Philosophes, and Romanticists; spelling reforms. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Holmes.

131. THE FRENCH DRAMA PRIOR TO 1700 (5). Prerequisite, French 72.

A survey of the religious and comic theatres of the Middle Ages; the theatre of the Renaissance and its relation to the classic theatres of Greece and Rome; the neo-classic theatre of the 17th century. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Wiley.

132. THE FRENCH DRAMA SINCE 1700 (5). Prerequisite, French 72.

A survey of Modern French Drama with special attention to the theatrical principles and ideas of the different dramatic schools of the last two centuries. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Wiley.

145. FRENCH PHONETICS (5). Prerequisite, French 72.

A detailed study of the French vowel and consonant sounds by the phonetic method. This course is required of candidates with a major in French for the master's degree, and it should be elected by anyone who intends to teach French. *Five hours a week, fall quarter.* Professors Dey, Wiley.

161. THE SIXTEENTH CENTURY (5). Prerequisite, French 72.

A general treatment of the chief movements in French literature of the 16th century, with some reference to the Italian Renaissance and its influence on France. Specimen readings from the more important poets and prose writers; Marot, Rabelais, the Pléiade, Montaigne, etc. *Five hours a week, spring quarter.* Professor Lyons.

171. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (5). Prerequisite, French 72.

A study of the period of Henry IV and Louis XIII. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Lyons.

172. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (5). Prerequisite, French 72.

This course deals with the literature of the reign of Louis XIV. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Lyons.

181. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (5). Prerequisite, French 72.

Voltaire, Montesquieu, Rousseau, les Encyclopédistes. A study of the literary movement of the century and of the origins of romanticism. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Huse.

191. FRENCH ROMANTICISM (5). Prerequisite, French 72.

French literature from 1800 to 1850, with special stress on the works of the romantic poets, Lamartine, Hugo, Vigny, and Musset. Lectures, readings, reports. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Dey.

192. FRENCH LITERATURE SINCE 1850 (5). Prerequisite, French 72.

A study of the later literary movements of the 19th century, with some emphasis on the contemporary period. Lectures, readings, reports. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Dey.

CELTIC 105. OLD IRISH (5).

Grammar and reading of texts. *Pokorny's Old Irish Reader, Táin Bó Cuailge* (Supplement to *Eriu.*) *Five hours a week, winter quarter.* Professor Holmes.

Courses for Graduates

221-222-223. OLD FRENCH (15).

Reading of the oldest texts: La Chanson de Roland; Aucassin et Nicolette; Chrétien de Troyes. Lectures on French phonology and morphology. *Five hours a week, fall, winter, and spring quarters.* Professor Holmes.

225. PROVENCAL (5).

A study of the ancient language and literature of Provence. The poetry of the Troubadours. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Holmes.

231. FRENCH SYNTAX (5).

The most important phases of modern French syntax studied from a historical point of view. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Dey.

248. FRENCH LITERATURE OF THE 14TH AND 15TH CENTURIES (5). Prerequisite, French 221 or 265.

A combination of literary survey and reading course. Especial attention will be paid to Villon, who will be read in entirety with commentary. General treatment of such writers as Machaut, Froissart, Christine de Pisan, etc. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Holmes.

265-266. FRENCH LITERATURE OF THE RENAISSANCE (10).

A study of French Literature of the 16th century. Italian and French Humanism. The reformation. Marot, Rabelais, Calvin, the Pléiade, Montaigne. (1940-1941 and alternate years.) *Five hours a week, winter and spring quarters.* Professor Lyons.

324abc. ROMANCE PALEOGRAPHY (5).

A study of the more important scripts, methods of dating manuscripts, diplomatic editing, and principal methods of making a critical edition, with practical exercises. *Two hours a week, fall, winter, and spring quarters.* Professor Linker.

331. HISTORY OF FRENCH LITERATURE PRIOR TO 1300 (5).

Lectures and seminar papers. A complete and careful study of the origins of French literature, with emphasis upon the twelfth century Renaissance, the period of the epics, beginning of romances, etc. French 221 is desired, though not prerequisite. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Holmes.

391. STUDIES IN ROMANTICISM (5). Prerequisite, French 191.

Seminar course. Intensive study of one of the romantic poets. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Dey.

395. RESEARCH (5).

Research in a special field under the direction of a member of the department.

*SPANISH

Courses for Undergraduates

1-2-3. ELEMENTARY AND INTERMEDIATE SPANISH (**9).

A course running through three quarters, designed for beginners and for those whose preparation is not sufficient to qualify them for Intermediate Spanish (11-12-13). The completion of Spanish 1-2-3 gives credit for Intermediate Spanish. *Six hours a week, through the year.* Professor Stoudemire; Dr. Hayes; Messrs. Wogan, Duffey, Burks, Poland, Walther, Guilbeau, McDowell.

NOTE: No student is permitted to take French 1 or 2 or 3 and Spanish 1 or 2 or 3 at the same time.

Attention is called to Spanish 14-15-16, designed for upperclassmen who have fulfilled the requirements in another foreign language.

11-12-13. INTERMEDIATE SPANISH (9).

A course running through three quarters, designed for those who show evidence of adequate preparation. Freshman and Sophomore elective. *Three hours a week, through the year.* Professors Leavitt, N. B. Adams, Stoudemire; Dr. Hayes; Messrs. Wogan, Duffey.

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially qualified for such work. Sophomore elective. *Three hours a week, through the year.* Professor Stoudemire.

21-22-23. ADVANCED SPANISH (9). Prerequisite, Spanish 1-2-3, or 11-12-13, or the equivalent.

Masterpieces of Spanish Literature with selected readings from representative authors. Sophomore elective. *Three hours a week, through the year.* Professors Leavitt, N. B. Adams, Boggs, Stoudemire; Dr. Hayes.

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* Students interested in having a major in Spanish will please consult Dr. S. E. Leavitt, Departmental Adviser.

* * No credit is allowed towards a degree for the elementary portion of French 1-2-3. Tuition is charged, however, for *six hours* a week, the actual time devoted to instruction.

24-25. COMMERCIAL SPANISH (6). Open only to students who plan to enter the School of Commerce. Prerequisite, Spanish 21.

The object of this course is to give the student practical training in modern Spanish. Newspapers and magazine articles dealing with the life and customs of South America are read. Practice in commercial correspondence. Spanish 25 is largely conducted in Spanish. *Three hours a week, winter and spring quarters.* Professor Leavitt; Dr. Hayes.

51. SPANISH CONVERSATION AND COMPOSITION (5). Prerequisite, Spanish 23.

The object of this course is to provide students with an opportunity to acquire practice in spoken Spanish. Discussion in Spanish on subjects of general interest. Composition and outside reading. *Five hours a week, fall or winter or spring quarter.* Professors N. B. Adams, Stoudemire; Dr. Hayes.

71. SURVEY OF SPANISH LITERATURE TO 1700 (5). Prerequisite, Spanish 23.

A survey of Spanish literature from the twelfth century through the *Siglo de Oro.* This course is designed especially to present a thorough background in Spanish literature. Lectures, readings from representative authors, especially from the drama, picaresque novel, and Cervantes. Open to juniors and seniors. *Five hours a week, fall or winter quarter.* Professor Stoudemire.

72. SURVEY OF SPANISH LITERATURE SINCE 1700 (5). Prerequisite, Spanish 71.

A survey of Spanish literature from 1700 to the present. This course is designed especially to present a thorough background in Spanish literature. Lectures and readings from the eighteenth century, nineteenth century drama, regional novel, and "Generation of '98." Open to juniors and seniors. *Five hours a week, winter or spring quarter.* Professor Stoudemire.

Courses for Graduates and Advanced Undergraduates

109. EARLY SPANISH PROSE FICTION (5). Prerequisite, Spanish 72.

A study of the origins and developments of the novel in Spain up to the time of Cervantes. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor N. B. Adams.

110. THE SPANISH NOVEL—1605-1898 (5). Prerequisite, Spanish 72.

A survey of the novel from Cervantes through the nineteenth century. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor N. B. Adams.

111. MODERN SPANISH NOVELISTS (5). Prerequisite, Spanish 72.

A study of the "Generation of '98," with consideration of present day tendencies. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor N. B. Adams.

112. THE NOVEL IN SPANISH AMERICA (5). Prerequisite, Spanish 72.

A survey of the novel in Spanish America, with special attention to notable examples. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Leavitt.

115. EARLY LYRIC POETRY (5). Prerequisite, Spanish 72.

A survey of lyric poetry in the Spanish peninsula from the origins through the *Siglo de Oro.* (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor N. B. Adams.

116. MODERN LYRIC POETRY (5). Prerequisite, Spanish 72.

Brief treatment of the poetical schools of Seville and Salamanca in the eighteenth century and study of Spanish lyric poetry through the nineteenth century to the present day. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor N. B. Adams.

117. CERVANTES (5). (Comparative Literature 117.)

Consideration of the Romances of Chivalry in Spain; study of Cervantes' *Don Quixote* and the *Exemplary Novels.* Credit in Spanish is given for this course upon approval of the instructor. *Five hours a week, spring quarter.* Professor Stoudemire.

131. LOPE DE VEGA AND HIS CONTEMPORARIES (5). Prerequisite, Spanish 72.

Reading of representative plays of Lope de Vega, Tirso de Molina, Guillén de Castro, Ruiz de Alarcón, etc. Lectures and reports. (1941-1942 and alternate years.) *Five hours a week, fall quarter.* Professor Leavitt.

132. CALDERON AND HIS CONTEMPORARIES (5). Prerequisite, Spanish 72.

Reading of representative plays of Calderón, Moreto, Rojas, etc. Lectures and reports. (1941-1942 and alternate years.) *Five hours a week, winter quarter.* Professor Leavitt.

134. SPANISH DRAMA OF THE NINETEENTH CENTURY (5). Prerequisite, Spanish 72.

Reading of representative plays of this period. Lectures, oral and written reports. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Leavitt.

135. MODERN SPANISH DRAMA (5). Prerequisite, Spanish 72.

Reading of plays of Dicenta, Benavente, Linares Rivas, the Alvarez Quintero brothers, Marquina, Martínez Sierra, etc. Lectures, oral and written reports. (1940-1941 and alternate years.) *Five hours a week, winter quarter.* Professor Leavitt.

145. SPANISH PHONETICS (5). Prerequisite, Spanish 72.

A detailed study of the Spanish vowel and consonant sounds by the phonetic method. This course is required of candidates with a major in Spanish for the master's degree, and it should be elected by anyone who intends to teach Spanish. *Five hours a week, spring quarter.* Professor Boggs.

Courses for Graduates

221-222. OLD SPANISH (10).

Ford's *Old Spanish Readings.* The Poem of the Cid and other old Spanish texts. Lectures on phonology, morphology, and syntax. *Five hours a week, fall and winter quarters.* Professor Boggs.

241. STUDIES IN SPANISH AMERICAN LITERATURE (5).

Problems of bibliography, source materials, special studies, research. (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Leavitt.

291. EARLY SPANISH LITERATURE (5). Prerequisite, Spanish 221-222.

Survey of Medieval Spanish Literature. *Five hours a week, spring quarter.* Professor Boggs.

393. SPANISH ROMANTICISM (5). Seminar Course.

General survey of the Romantic period in Spain and investigation of special problems. (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor N. B. Adams.

395. RESEARCH (5).

Research in a special field under the direction of a member of the department.

ITALIAN

Courses for Undergraduates

51. ELEMENTARY COURSE (5). Prerequisite, French 11-12-13 or Spanish 11-12-13.

Grammar, pronunciation, oral and written exercises. Reading of modern Italian texts. *Five hours a week, fall quarter.* Professor Huse.

52. MODERN ITALIAN LITERATURE (5). Prerequisite, Italian 51.

Continuation of Course 51 with reading from modern Italian poets, dramatists, and novelists. *Five hours a week, winter quarter.* Professor Huse.

Courses for Graduates and Advanced Undergraduates

131. DANTE I (5). Prerequisite, Italian 51 and 52.

The *Vita Nuova* and the *Inferno,* with some references to origins of Italian literature and to the poets of the *dolce stil nuovo.* (1941-1942 and alternate years.) *Five hours a week, spring quarter.* Professor Huse.

132. DANTE II (5). Prerequisite, Italian 131.

The *Purgatorio* and the *Paradiso.* (1940-1941 and alternate years.) *Five hours a week, spring quarter.* Professor Huse.

156. DANTE IN ENGLISH TRANSLATION (5). (Comparative Literature 156.)

The *Vita Nuova* and the *Divine Comedy;* the precursors of Dante and the poets of the *dolce stil nuovo.* Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, fall quarter.* Professor Huse.

161. ITALIAN LITERATURE OF THE RENAISSANCE (5). Prerequisite, Italian 51 and 52.

Readings from the principal authors, with special emphasis on Ariosto, Machiavelli, Castiglione, and the lyric poets. Collateral reading on the history of Italian culture during the Renaissance. *Five hours a week, winter quarter.* Professor Huse.

Course for Graduates

221. OLD ITALIAN (5).

Reading from the poets previous to Dante. Early monuments. Survey of phonology and morphology. (1940-1941 and alternate years.) *Five hours a week, fall quarter.* Professor Holmes.

DEPARTMENT OF SOCIAL WORK

Since the work in the Division of Public Welfare and Social Work is specialized and since it is to be taken practically exclusively by graduate students, no description of courses in the Department of Social Work is given here. Anyone interested is referred to the Special Bulletin of the Division and to the Catalogue of the Graduate School.

*DEPARTMENT OF SOCIOLOGY

Professors: H. W. ODUM, H. D. MEYER, S. H. HOBBS, JR.
Research Professors: E. R. GROVES, R. B. VANCE.
Associate Professors: W. B. SANDERS, L. M. BROOKS.
Research Associates in Institute for Research in Social Science: G. B. JOHNSON, KATHARINE JOCHER, HARRIET HERRING, MARGARET JARMAN HAGOOD, D. S. KLAISS.
Teaching Fellow: GORDON W. LOVEJOY.
Assistants: TREZ P. YEATMAN, R. B. BARHAM, W. A. SUTTON, JR.

Courses for Undergraduates

Students with one or more elective courses in sociology may take either Sociology 51 or 52. Sociology 51 and 52 may not be counted for credit by a student who has credit for Sociology 21-22-23 or equivalent.

21-22-23. COMPREHENSIVE INTRODUCTORY COURSE IN SOCIOLOGY (9).

A comprehensive introduction to sociology and its newer developments. Study of sociological principles, processes, and theories integrated with social problems and social direction. How to study society; methods; techniques; research. Sophomore elective. *Three hours a week, through the year.* Professors Meyer, Vance, Brooks; Teaching Fellow.

51. INTRODUCTION TO SOCIOLOGY (5).

Emphasis on social origins as found in primitive society and upon the underlying fundamentals of geography, biology, psychology, and culture in contemporary society; social institutions; the elements of social theory. *Five hours a week, every quarter.* Professor Brooks.

52. SOCIAL PROBLEMS (5).

Primary emphasis on positive features with secondary and elemental study of social pathology; such problems as the community, race, population, crime, and poverty, preparatory to advanced study in such courses as Sociology 168, 185, 186, 192, 193, and others. *Five hours a week, every quarter.* Professor Meyer.

53. HOW TO STUDY SOCIETY (5). Prerequisite, three courses in Sociology.

An introduction to the quantitative methods of studying society. The course includes, in addition to special emphasis upon the tools of research in general readings and methods, examination and analysis of current research projects, governmental and private. It compares the objective laboratory approach with the older, "systematic" sociology, giving the minimum requirements in theory and exercise for statistical work. *Five hours a week, spring quarter.* Professor Hagood.

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* For a major in the Department Sociology 51 and 52 are prerequisite if the student has not completed Sociology 21-22-23. Sociology 152 is required in addition to the preceding courses. All other courses in the major are elective. The number of courses required for a major in Sociology is six provided Sociology 21-22-23 or 51 and 52 have been completed, or eight if these preliminary courses have not been completed.

62. MARRIAGE (5). Open to seniors.

A discussion of the practical problems of marriage, parenthood, and family adjustment. *Five hours a week, every quarter.* Professors Groves, Klaiss.

Courses for Graduates and Advanced Undergraduates

142. A CRITICAL APPROACH TO SOCIAL PSYCHOLOGY (5). See Philosophy 142.

151. SOCIAL ANTHROPOLOGY (5).

A general course in social anthropology, but with some attention to physical anthropology and archaeology. The nature of culture; culture processes; the modern cultural environment; and social change. *Five hours a week, spring quarter.* Professor Johnson.

152. SOCIAL THEORY (5).

A survey of the range of contemporary social theory with preliminary consideration of its historical backgrounds. Leading theories are summarized, compared, and criticized. Required of all whose majors are in sociology and of all candidates for graduate degrees. *Five hours a week, fall or spring quarter.* Professor Vance.

154. CONTEMPORARY SOCIETY (5).

The study of the cultural evolution of society from the viewpoint of the folk regional development—Folkways—Stateways—Geographic factors—Regions—States—The application to contemporary American society—Application to democracy—Social achievements—The teachings of sociology in relation to modern technology and change. *Five hours a week, fall quarter.* Professor Odum.

155. SOCIAL PROGRESS AND SOCIAL VALUES (5). Open to juniors and seniors.

This course reviews the theories and philosophy of social progress; studies social trends and social change; attempts to set up objective measuring scales of change; attempts to appraise objectively aspects of material progress and of social progress and social regress. After brief consideration of social values it attempts to set up certain objectives and goals of social achievement as a framework upon which to measure and project human progress. *Five hours a week, winter quarter.* Professor Odum.

160. INTRODUCTION TO SOCIAL WORK (5).

A course in social problems adapted to meet the needs of students entering upon professional training for social work. A student who intends to enter the Division of Public Welfare and Social Work is advised to elect this course as a part of the undergraduate major. Credit for Sociology 193 will not be allowed if Sociology 160 is taken. *Five hours a week, fall or spring quarter.* Professor Sanders.

161. THE FAMILY (5).

The history, purpose, and problems of the family, with especial attention to social conditions influencing family life and to efforts for family conservation. Open to men and women. *Five hours a week, winter quarter.* Professors Groves, Klaiss.

168. THE COMMUNITY (5).

A study of the modern community with primary emphasis on urban structure and growth, problems and programs of housing, delinquency areas, recreation, decentralization, and planning. Large use will be made of recent literature in this field. *Five hours a week, spring quarter.* Professor Brooks.

169. THE INDUSTRIAL COMMUNITY (5).

A study of the industrial community with special reference to types in the South; the coming of industry and the industrial community; analysis of the various types and comparison with non-industrial communities within and outside the South; special problems such as paternalism, community organization, social work, and economic and labor problems, as they affect the community. *Five hours a week, winter quarter.* Professor Herring.

171. EDUCATIONAL SOCIOLOGY (5).

Education as a process of social control and achievement. The social resources of the school and other educational resources. Social problems of the teacher. *Five hours a week, fall or spring quarter.* Professor Meyer.

173. PLAY AND RECREATION (5).

The theories of play, play activities, attitudes, history of the play movement, play leadership, programs, values, sex and age differences, classification of movements, application to community life. *Five hours a week, spring quarter.* Professor Meyer.

174. PRINCIPLES OF SOCIAL GROUP WORK (3).

An introduction to the principles, philosophy, methods, and agencies of group work. Group work as an approach and method in social work. The application of group work skills to various types of groups with special emphasis on program development. The course will be focused to a large extent on the Southern region and rural life. *Three hours a week, winter or spring quarter.* Professor Meyer.

175. EXTRA-CURRICULAR ACTIVITIES (3).

Clubs, student participation in school government, physical education, publicity in school publications, commencement, many miscellaneous topics, theoretical and practical studies of institutions promoting successful programs, bibliographical materials. *Three hours a week, winter quarter.* Professor Meyer.

181. REGIONAL SOCIOLOGY OF THE SOUTH (5).

An introductory study of southern regions, land and people, based upon *Southern Regions of the United States* and its *Manual.* Emphasis is given to facts, factors, and policies pertaining to geography and culture, resources and waste, social institutions and planning; and to the several methods of investigating regions in terms of social science. *Five hours a week, fall quarter.* Professor Brooks.

185. THE NEGRO (5).

A study of the American Negro, with particular reference to the South; the historical and cultural background of the Negro in Africa and in America; development since emancipation; bi-racial system; and problems of race relations. *Five hours a week, fall quarter.* Professor Johnson.

186. POPULATION (5).

A study of problems of quality and quantity of population including theories of population increase, and problems of composition, distribution, differential fertility, population pressure, and internal migration. *Five hours a week, winter quarter.* Professor Vance.

191. SOCIAL STATISTICS (5). Prerequisite, three courses in Sociology.

The topics usually covered in an elementary course in statistics are treated with emphasis on those best adapted to sociological research. With laboratory materials of a sociological nature, the student in learning the processes of statistical analysis may become familiar with sources, interpretation, and presentation of social data. Required of all candidates for graduate degrees in sociology. *Four lecture and four laboratory hours a week, fall quarter.* Professor Hagood.

192. CRIME (5).

Criminology and penology; the study of historical and contemporary theory and practice. *Five hours a week, winter quarter.* Professor Brooks.

193. SOCIAL PATHOLOGY (5).

Emphasis on poverty and relief with coordinate study of delinquency, vagrancy, prostitution, alcoholism, crime, mental defect, etc. Analysis of therapeutic measures. Occasional field trips to county and state institutions. Credit for Sociology 160 will not be allowed if Sociology 193 is taken. *Five hours a week, fall quarter.* Professor Meyer.

198. JUVENILE DELINQUENCY (5).

An evaluation of the major causative factors in delinquency from the viewpoint of the social sciences. *Five hours a week, fall or spring quarter.* Professor Sanders.

Courses for Graduates

208. METHODS IN SOCIAL RESEARCH (5).

An introduction to social research planned to give the student an adequate preliminary acquaintance with the general field of social research together with special approaches and methods. The approaches include the philosophical, analogical, biological, psychological, sociological, anthropological, economic, politicojuristic. The methods include the historical, the statistical, the survey, the case, the scientific-human. In addition to these, special emphasis is put upon the training of personnel and methods of procedure in working with source materials. *Five hours a week, fall quarter.* Professors Odum, Jocher.

209. REGIONAL PROBLEMS AND PLANNING (5).

A survey of the field of regional social problems and planning with special reference to the Southern regions of the United States. The introduction includes a brief survey of the rise and development of regionalism, the rise and development of planning, together with recent developments of both in the United States, based on a six-fold division of the United States as presented in *Southern Regions of the United States. Five hours a week, winter quarter.* Professor Odum.

210. FOLK SOCIOLOGY (5).

This is an approach to a new general sociology, utilizing the folk-regional society and regionalism as a study of natural societal evolution in contrast with modern artificial society and technology. The chief objective is to seek contributions to sound social theory as it relates to the understanding of cultures and the direction of civilization. *Five hours a week, spring quarter.* Professor Odum.

212. CONTEMPORARY AMERICAN SOCIOLOGY (5).

This course will present a general survey of the work and personalities of living American sociologists projected on the background of the sociology of Franklin Henry Giddings. *Five hours a week, winter quarter.* Professor Odum.

215. SOCIAL DEMOGRAPHY (5).

The course attempts to synthesize the emerging concepts of population, culture, and the region by depicting the resulting culural landscape. The contributions of cultural anthropology, social geography, regional sociology, and human ecology are studied in an effort both to evaluate the socially significant factors of the environment and to arrive at a classification of regions, culture areas, and social types. *Five hours a week, spring quarter.* Professor Vance.

218. HUMAN ECOLOGY (5).

This seminar course is devoted to the consideration of theory and research emerging around the concept of human ecology. A review of the background of human ecology is followed by readings, reports, and research on its contemporary development. *Five hours a week, spring quarter.* Professor Vance.

230. RACE AND CULTURE CONTACTS (5).

This course will attempt to describe and analyze the problems arising from the contacts of peoples of different racial or cultural heritages, with particular reference to Negro-white relations in the New World. Comparative studies of the nature and consequences of Negro-white contacts in various parts of the New World will form the chief basis for theoretical discussion. *Five hours a week, winter quarter.* Professor Johnson.

253. ADVANCED SOCIAL STATISTICS (5). Prerequisite, Sociology 191.

A seminar course treating multiple and partial correlation, analysis of variance, sampling, and other topics applicable to specific research projects of the students. *Four lecture and four laboratory hours a week, winter quarter.* Professor Hagood.

270. MARRIAGE. See Department of Social Work.

327, 328, 329. GRADUATE RESEARCH SEMINARS (5 each).

Research in selected topics. *Five hours a week, fall, winter, and spring quarters.* Professor Odum.

331, 332, 333. GRADUATE RESEARCH SEMINARS (5 each).

Research in selected topics. *Five hours a week, fall, winter, and spring quarters.* Professors Groves, Klaiss.

341. SEMINAR (5).

Individual research in a special field under the direction of a member of the department.

COURSES IN RURAL SOCIAL-ECONOMICS

Courses for Undergraduates

53. RURAL SOCIAL-ECONOMICS (5). Prerequisite, one course in introductory economics advised.

A general introductory course in the principles and problems of rural economics, with attention given to the relationship between economic and social conditions, especially in the South. Covers such topics as historic background, farm population and labor, land, land tenure, land policies, rural credits, marketing, farm policies, prices, wealth and income, farmers' movements, etc. *Five hours a week, fall quarter*. Professor Hobbs.

54. RURAL COOPERATION: HISTORY, PRINCIPLES, PRACTICES (5).

Lecture and research. Historical background abroad and at home; principles of cooperation; fields of cooperative activity, both economic and social. *Five hours a week, spring quarter*. Professor Hobbs.

71. RURAL SOCIOLOGY (5).

Introduction to Rural Sociology, covering such topics as rural society and rural sociology, socio-economic aspects of agriculture, conditions and movements of rural population, rural social institutions and agencies, bio-social conditions, socio-cultural conditions, rural-urban relations, etc. *Five hours a week, winter quarter*. Professor Hobbs.

73. THE RURAL COMMUNITY (5).

Lecture and research. Deals with the rural community as a sociological group, evolution of the rural community, village-community economy, social institutions, modern rural and agricultural community, social organization, social control, sociological significance, the future of the rural community, etc. (In alternating years.) *Five hours a week, spring quarter*. Professor Hobbs.

91, 92, 93. LABORATORY COURSES IN RURAL ECONOMICS AND SOCIOLOGY (5 each). Corequisite, 51 or 71.

Home-state studies, home-county studies, research projects and surveys. Hours arranged to suit the convenience of the student. *Nine hours laboratory and one hour seminar a week, fall, winter, and spring quarters*. Professor Hobbs; Assistant.

Courses for Graduates and Advanced Undergraduates

101. NORTH CAROLINA: ECONOMIC AND SOCIAL (5).

This course is designed to familiarize the student with North Carolina: population, agriculture, resources, social life, economic development, industry, wealth, taxation, education, public welfare. *Five hours a week, fall or spring quarter*. Professor Hobbs.

103. HISTORY OF AGRICULTURE (5).

This course traces the development of agriculture from its earliest beginnings to the present: earliest beginnings; Greece and Rome; later agriculture in Europe; American agriculture. References: Gras, *A History of Agriculture*; Schmidt and Ross, *Readings in the Economic History of American Agriculture;* special readings. *Five hours a week, spring quarter*. Professor Hobbs.

110. RURAL LAND PLANNING AND LAND ECONOMICS (5). Prerequisite or corequisite, general economics, or Rural Economics 51.

This is an introductory course to the broad field of land economics, with special attention given to farm and forest land resources, utilization, and conservation in the United States. A few subjects covered are: the problem of land economics; characteristics and classification of land; present and future utilization of land; property in land; land tenure; land taxation; social ends of land utilization; policies of land settlement and development; rural resettlement; forest conservation. (In alternating years.) *Five hours a week, winter quarter.* Professor Hobbs.

Courses for Graduates

271abc. RURAL SOCIOLOGY (5 each quarter).

Deals mainly with rural social problems, and research in rural sociology. Covers such topics as the solitary farmstead and the rural community, farm tenancy, the farm family and farm population, the rural school, the rural church, rural citizenship, town-country relations, nature and extent of rural social research. Coordinate with rural sociology 71 in winter quarter. *Five hours a week, fall, winter, and spring quarters.* Professor Hobbs.

311abc. RURAL SOCIAL PROBLEMS (5 each quarter).

1. Research, seminars, and field investigations of (1) rural social institutions and agencies; (2) transportation and communication facilities in rural areas; (3) country-mindedness and its sequences; (4) town and country interdependencies; (5) social disability in country areas, our public welfare laws and agencies; (6) social aspects of tenancy and illiteracy; (7) state and county studies, economic, social, and civic; county bulletins, etc. 2. Rural Social Survey; research technic, and field work. 3. Statistics; interpretation and use. 4. Rural Social Engineering; (1) county community studies; (2) community organization, economic and social; (3) county government; (4) country leadership, requisites and technic. Required preliminary preparation: approved courses in general and rural sociology. Lacking this, collateral courses in these subjects must be taken in residence here. *Five hours a week, fall, winter, and spring quarters.* Professor Hobbs; Assistant.

*DEPARTMENT OF ZOOLOGY

Professors: R. E. COKER, C. D. BEERS.
Assistant Professors: D. P. COSTELLO, R. D. BOCHE, I. C. KITCHIN.
Instructor: W. L. ENGELS.
Teaching Fellow: Q. R. MURPHY, JR.
Fellow by Courtesy: HELEN M. COSTELLO.
Assistants: J. H. ALLEN, L. I. GARDNER, FRANCES SPENCE, CARLOS J. ROSS, W. H. MERONEY.

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* For A.B. with major in Zoology, there are required six courses in Zoology of the level of 41 or higher, or five in Zoology with Botany 41. Six courses should be taken in other Departments of the Division of the Natural Sciences including two courses in Chemistry and two in Physics, if these have not been taken in the General College. Courses necessary to complete the required number of hours for graduation should be taken in departments outside the Division of the Natural Sciences. (See also notes on page 115.) At least three courses should be taken in one Department other than Zoology either within or without the Division.

Those students who plan to teach in public high schools should read the footnote at the bottom of page 178.

Courses for Undergraduates

1. (NATURAL SCIENCE 1). ELEMENTS OF PLANT BIOLOGY (4). Freshman elective. See Department of Botany.

2. (NATURAL SCIENCE 2). ELEMENTS OF ANIMAL BIOLOGY (4). Freshman elective.

An introduction to structure and function in the animal body, with some consideration of man's relation to his environment, both organic and inorganic, and a review of animal types. *Three lecture and two laboratory hours a week, fall, winter or spring quarter. Laboratory fee, $2.00.* Professors Costello, Boche, Kitchin.

3a. (NATURAL SCIENCE 3a). ELEMENTS OF HUMAN PHYSIOLOGY (4). Freshman elective. See courses in Medical Science.

3b. (NATURAL SCIENCE 3b). ELEMENTS OF GEOLOGY (4). Freshman elective. See Department of Geology.

3c. (NATURAL SCIENCE 3c). GEOGRAPHY (4). Freshman requirement for the School of Commerce. See Department of Geology.

41. FUNDAMENTALS OF ANIMAL BIOLOGY (6).

Principles of biology; elements of anatomy, physiology, and classification of vertebrate animals. Dissection of frog and dogfish and study of tissues, as necessary for an understanding of the organization and functions of vertebrate animals and especially of man. Sophomore, junior, and senior elective. *Four lecture and four laboratory hours a week, fall or winter quarter. Laboratory fee, $5.00.* Professors Coker, Boche; Assistants.

42. PRINCIPLES OF ANIMAL BIOLOGY (6). Prerequisite, Zoology 41.

Basic facts and theories of individual development, heredity and evolution; introduction to structure and classification of invertebrate animals. Field trips are made to observe and collect animals in nature. *Four lecture and four laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professors Coker, Boche.

NOTE: By special arrangement half course credit may be obtained by taking the lectures only.

Courses for Graduates and Advanced Undergraduates

103. COMPARATIVE VERTEBRATE ANATOMY (6). Prerequisite, Zoology 41 and 42.

Lectures on the structure and evolutionary history of the chief organ systems of vertebrates, with emphasis on functional aspects. Dissection of amphioxus, petromyzon, fowl, and cat. *Two lecture and nine laboratory hours a week, fall quarter. Laboratory fee, $10.00.* Professor Engels.

104. VERTEBRATE EMBRYOLOGY (6). Prerequisite, Zoology 103. Students who have not had Zoology 103 may be admitted by special permission.

Laboratory study of maturation and fertilization phenomena in ascaris; segmentation and formation of germ layers in frog; germ layers, extraembryonic membranes and development of characteristic vertebrate organs in chick; essentials of microscopic technique. Readings on comparative development, especially in early stages, of amphioxus, amphibia, birds, and mammals. *One lecture and ten laboratory hours a week, winter quarter. Laboratory fee, $10.00.* Professor Engels.

105. VERTEBRATE HISTOLOGY AND MICROTECHNIQUE (6). Prerequisite, Zoology 104.

Microscopic preparations of selected tissues and organs are made from the fresh animal and studied with the help of texts and original papers. Laboratory work with assigned readings and seminar reports. *One lecture and ten laboratory hours a week, spring quarter. Laboratory fee, $10.00.* Professor Costello.

106-107-108. MORPHOLOGY AND CLASSIFICATION OF THE INVERTEBRATES (15). Prerequisites, Zoology 41 and 42.

Dissection and microscopic study of types of the chief orders, with some consideration of life histories; systematic diagnosis. Basic course for all advanced work in zoology. Laboratory work with occasional lectures. *Ten laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Professors Beers, Kitchin, Engels.

109. INTRODUCTION TO HYDROBIOLOGY (5). Prerequisite, Zoology 41 and 42.

A study of animal life in water, with special reference to the relation of animals to each other and to their environments. Field and laboratory work, lectures, reading of special papers, discussions. *Ten laboratory hours a week, fall quarter. Laboratory fee, $5.00.* Professor Coker.

110. PARASITOLOGY (MEDICAL ZOOLOGY) (5). Prerequisite, Zoology 41 and 42.

A consideration of the structure, classification, and life histories of the protozoa and worms of medical importance and of the arthropods which either cause disease directly or which transmit the bacteria, protozoa, and worms of diseases. (Not given in 1939-1940.) *Lectures and demonstrations, five hours a week, winter quarter.* Professor Beers.

111. GENETICS (5). Prerequisite, Zoology 41 and 42 or equivalent.

A course of lectures and laboratory experiments designed to acquaint the student with the mechanisms underlying the phenomena of inheritance. The lectures will treat of Mendelian heredity, mutation, population mechanics, and the relationship between genes and development. In the laboratory the student will carry out a number of breeding experiments with Drosophila. *Three lecture and four laboratory hours a week, winter quarter. Laboratory fee, $5.00.* Professor Boche.

112. VERTEBRATE FIELD ZOOLOGY (5). Prerequisite, Zoology 41 and 42.

A study of the vertebrates in nature, their functional relationships with one another and with the other biological and the physical elements in their environment. Emphasis is placed on habits and behavior, on distribution (historical, geographical and ecological), and on variation (the speciation problem). Lectures, discussions, readings in source literature, and laboratory work, with field study of local vertebrates. *Ten laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professor Engels.

s113. ADVANCED INVERTEBRATE ZOOLOGY (9). Prerequisite, Zoology 42 or equivalent.

Morphology, principles, and classification of invertebrate forms. Open to undergraduates with majors in zoology and to graduates with minors in zoology, and, in special cases, with permission of the Department, to graduates with majors in zoology as a substitute for Zoology 106-107-108 (basic course for all advanced work in zoology). *Ten lecture and sixteen laboratory hours a week, first summer session only. Laboratory fee, $12.00.* Professor Kitchin.

Courses for Graduates

209-210-211. EXPERIMENTAL EMBRYOLOGY (15 or more).

The study of fertilization, cell lineage, differentiation, and regeneration of invertebrates and vertebrates from the experimental viewpoint. Lectures and seminar reports. *Not fewer than ten laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Professors Costello, Kitchin.

212. HYDROBIOLOGY (5). Prerequisite, Zoology 109.

The study of aquatic organisms and environments, with attention restricted to a particular topic, as a small group of animals, a limited set of habitats, or special phenomena of behavior. The work is on the border line of research, involving critical examination of literature, as well as field and laboratory study and seminar reports. *Ten laboratory hours a week, fall or winter or spring quarter. Laboratory fee, $5.00 a quarter.* Professor Coker.

215. PROTOZOOLOGY (5).

Special study of the protozoa living in man and lower animals, with consideration of host-parasite relationships and with comparative studies on a few free-living forms. Laboratory work with occasional lectures, assigned readings, and seminar reports. *Ten laboratory hours a week, fall or spring quarter. Laboratory fee, $5.00.* Professor Beers.

216. CYTOGENETICS (5). Prerequisite, Zoology 104 and 105 or the equivalent.

A study of nuclear phenomena in cells during mitosis and maturation in relation to the facts of genetics, involving practical training in cytological technique. Laboratory work with occasional lectures. *Ten laboratory hours a week, spring quarter. Laboratory fee, $5.00.* Professor Costello.

217. CELL PHYSIOLOGY (3). Prerequisite, Organic Chemistry.

A consideration of the physico-chemical aspects of protoplasm, including recent studies on cataphoresis, permeability, surface tension, pH, viscosity changes, and other measurable properties of living cells. *Three hours a week, winter quarter.* Professor Costello.

316. RESEARCH (3 or 5 or more).

Under this heading may be credited the work of a single quarter or that of one or more years. *Six or ten or more laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 or $5.00 a quarter.* Professors Coker, Beers, Costello, Boche, Kitchin, Engels.

PART FIVE—EXTENSION DIVISION AND THE GRADUATE AND PROFESSIONAL SCHOOLS

THE UNIVERSITY EXTENSION DIVISION

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
Russell Marvin Grumman, B.H., *Director*
Ralph Waldo McDonald, Ph.D., *Associate Director*
Edgar Ralph Rankin, A.M., *Head, Department of School Relations*
William John McKee, C.E., Ph.D., *Supervisor of Correspondence Instruction*
Thomas Simmons Howard, S.B., *Assistant to the Director*

*THE ADMINISTRATIVE BOARD

Dudley deWitt Carroll, M.A.
Harl Roy Douglass, Ph.D.
Wesley Critz George, Ph.D.
Allan Wilson Hobbs, Ph.D.
Samuel Huntington Hobbs, Jr., Ph.D.
Howard Washington Odum, Ph.D., LL.D., Litt.D.
William Whatley Pierson, Ph.D.
Herman Glenn Baity, Sc.D.
William John McKee, C.E., Ph.D.

HEADS OF BUREAUS

Mary Louisa Cobb, A.B., *Correspondence Instruction*
Glen Haydon, Ph.D., *Community Music*
Samuel Huntington Hobbs, Jr., Ph.D., *Economic and Social Surveys*
Frederick Henry Koch, A.M., Litt.D., *Community Drama*
Frances Martin, A.B., *Class Instruction*
Harold Diedrich Meyer, A.M., *Recreation*
Charles Fremont Milner, A.B., *Visual Instruction*
Guy Berryman Phillips, A.B., *Educational Information and Assistance*
Russell Train Smith, M.Arch., *Art Extension*

GENERAL STATEMENT

By means of correspondence instruction, extension classes located in all parts of the State, radio lectures, extension library service, reading courses, community dramatics, interscholastic activities, audio-visual aids, and a variety of publications, the

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

University of North Carolina, through the Extension Division, is relating itself closely with the life of North Carolina. The University campus is now virtually coterminous with the boundaries of the commonwealth.

Starting as a Bureau of Extension in 1912 under the leadership of Dr. L. R. Wilson, former University Librarian, the idea of university extension was clarified and expanded under the administration of the late President Edward Kidder Graham. In 1921, in conformity with standards established by the National University Extension Association, the work was organized as a major division of the University by President Harry W. Chase.

In his inaugural address, November, 1931, President Frank Porter Graham defined the purposes of university extension thus: "It is the function of the state university not only to find its bits of truth and teach the truth gathered from scholars everywhere, but to carry the truth to the people that they may take it into their lives and help to make it prevail in the world of affairs. It is the ideal of the University Extension Division to make the resources of the universities, the discoveries of science, and the findings of the social scientists available for the people of the commonwealth."

The Extension Division is the administrative agency through which are conducted the extension activities of all the University's departments. Within recent years, moreover, the Division has developed a specialized program of adult general and professional education unrelated to the work of the resident departments. Other educational services are being offered men and women whose formal schooling has ended, but who still desire to continue their education regardless of higher academic awards. In meeting the demands of this group, the future of the University Extension Division as an agency for adult education holds the greatest promise of development.

BUREAU OF CLASS INSTRUCTION

Extension courses in regular University subjects are offered in communities throughout the State. These courses are taught by members of the University Faculty and, when all requirements are met, give the same credit as courses in residence. Those not wishing degree credit are also eligible to enroll in extension classes. The classes usually meet one evening a week for sixteen weeks, for which a half course or two semester hours of degree credit may be earned. An individual or group wishing to organize an extension class should make written application to the University Extension Division, giving the following information: probable number of enrollments, general type of persons who wish to join the class, course desired, when and where the class wishes to meet, and who will have charge of the local arrangements.

Courses Offered

The Extension Division attempts to offer most of the courses listed in the University Catalogue in any community where a sufficient number of people desire to enroll.

In order to conserve space, all other information and regulations concerning extension courses are omitted here but may be secured by sending a written request to the University Extension Division.

In-Service Teacher Training

Working in close cooperation with the Department of Education the Division conducts a specialized and carefully arranged program for the training of teachers now working in the schools of the State. The aim of this program is to improve instruction in the schools and to offer opportunities for the professional growth of teachers.

BUREAU OF CORRESPONDENCE INSTRUCTION

All information and regulations concerning correspondence courses offered by the University are contained in the catalogue of Correspondence Instruction issued separately. This contains information regarding economical plans for college and adult education.

LIBRARY EXTENSION DEPARTMENT

The aim of the Library Extension Department is to encourage discussion of current political, social, and economic problems, as well as to assist in the study of good literature. Reference material is supplied for such study.

One section renders assistance with programs and reference material, usually of a literary nature, to women's clubs and study groups, for which service a small charge is made. Another section renders assistance to schools, both to students and teachers, as well as to other individuals not organized in group study. This material is usually on current problems of a political, social, or economic nature.

BUREAU OF LECTURES, SHORT COURSES, AND RADIO

The University conducts a lecture bureau for the purpose of aiding schools, civic clubs, and other organizations in obtaining speakers. Addresses for special occasions, such as school and college commencements, are also arranged upon application.

No fee for lecture service is charged, but the traveling and incidental expenses of the lecturer are to be defrayed by the organization for which the lecture is made. Lecture courses also may be arranged.

From time to time the University has held at Chapel Hill short courses or institutes for various organizations and groups. These consist in an intensive training program or course ranging in duration from one day to two weeks. The program is composed of a specialized series of lectures, discsusions and demonstrations directed by leading speakers and teachers secured from the faculty of the University and from the State and nation. Short courses have been offered to high school athletic directors, welfare workers, parents, nurses, realtors, photographers, and members of the State Press Association.

In addition to those mentioned above, the Division will be glad to aid other organizations or groups in arranging for a short course, institute, special meeting, or convention.

Individual lectures and lecture courses by members of the faculty and entertainment programs by University musical and dramatic organizations are broadcast through the cooperation of a number of commercial radio stations.

BUREAU OF COMMUNITY DRAMA

The services of the Bureau of Community Drama are available to all schools, colleges, and communities throughout the State. Suggestions and advice on play production, and aid in solving any particular problem of the director of dramatics may be obtained from this bureau.

Assistance is given in organizing, in play selecting, in the designing and making of scenery, in costuming, and in make-up and lighting. Arrangements may be made for assistance in the direction of a chosen play.

The bureau has at its disposal more than two thousand volumes of play books, books on acting, play production, little theatre organization, play writing, stagecraft, lighting, costuming, make-up, etc. These are loaned upon payment of the postage and packing charges. By giving practical assistance to those interested in writing and producing plays, the bureau is seeking to promote and encourage dramatic art in the schools and communities of North Carolina, and to stimulate interest in the writing of native drama.

BUREAU OF VISUAL INSTRUCTION

The purpose of the Bureau is to place audio-visual aids at the disposal of schools and other educational and civic agencies on a cost basis. Primarily, the visual education services are designed to aid elementary, secondary school, and college teachers to supplement classroom instruction. Consequently, material is being selected that may be integrated with the curriculum or courses of study in public schools and colleges.

The Bureau is prepared to provide a number of advisory services concerning visual aids. The educational film library loan service is described in an issue of the University Extension Bulletin.

BUREAU OF COMMUNITY MUSIC

The Department of Music offers the following services: (1) leadership for community sings; (2) formation of community choruses; (3) lectures on public school and community music; (4) piano, violin, and organ recitals; (5) advisory service to schools; (6) concerts by the University Symphony Orchestra, the Symphonic Band, and the University Glee Clubs. A summer school course is offered to high school musicians.

BUREAU OF ART EXTENSION

The Department of Art offers, through the cooperation of the Extension Division, extension class and correspondence courses in the history and appreciation of art. Institutes on art education are sponsored jointly with other State agencies and organizations. A lecture service is available. Circulating art exhibits may be secured on a loan basis. Art exhibitions are conducted, in cooperation with the Art Department of the Woman's College, for the public schools and colleges in North Carolina. An exhibit is sponsored for the North Carolina Professional Artists Club.

The Secretary of the Department serves also as Secretary of the North Carolina State Art Society.

All of the special exhibitions in the Person Hall Art Gallery are open to the general public.

BUREAU OF ECONOMIC AND SOCIAL SURVEYS

For years the Department of Rural Social-Economics of the University has been collecting data on social and economic conditions in North Carolina. This material is available through loans from the library, articles in *The University News Letter,* and bulletins which record the results of a number of county surveys. *The University News Letter,* which is edited by this department, appears twenty-five times each year.

BUREAU OF RECREATION

This bureau offers service in public recreation and leisure time problems through the Department of Sociology. Bibliographies and reading lists on the subjects of sociology, community organization, etc., are provided upon request.

BUREAU OF HIGH SCHOOL DEBATING AND ATHLETICS

The University Extension Division, through this bureau, offers service to the high schools of the State by means of contests in debating, athletics, and academic subjects.

The High School Debating Union of North Carolina is the medium through which assistance in debate is offered. This organization was established in 1912-1913. Approximately two hundred high schools, grouped in triangles, discuss some important question each year. The schools winning both debates send their teams to the University to compete during High School Week in the final contest for the Aycock Memorial Cup.

The High School Athletic Association of North Carolina is the agency through which assistance in athletics is offered. This association conducts State high school contests in football, basketball, boxing, wrestling, baseball, track, soccer, golf, and tennis. The high schools compete in groups for the honor of representing the eastern and western sections of the State, and the teams winning the sectional contests meet at Chapel Hill in the finals. Approximately three hundred schools are members of this association.

The high school contests in academic subjects are conducted jointly by this bureau and by the University departments concerned. Academic contests are conducted in Latin, Spanish, French, and mathematics. High school newspaper, magazine, and essay contests are also conducted.

BUREAU OF EDUCATIONAL INFORMATION AND ASSISTANCE

The bureau is maintained through the cooperation of the Department of Education. The several members of the faculty of the Department offer to the State the following lines of service: educational tests and measurements; school surveys; teachers' appointments; advice and counsel with reference to school buildings, equipment, and general administrative problems.

THE GRADUATE SCHOOL

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
William Whatley Pierson, Ph.D., *Dean*

*THE ADMINISTRATIVE BOARD

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John Brooks Woosley, Ph.D.
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Howard Washington Odum, Ph.D., LL.D., Litt.D.
George Coffin Taylor, Ph.D.
Herman Glenn Baity, Sc.D.
Ralph Walton Bost, Ph.D.

GENERAL STATEMENT

The Graduate School finds its province in the fostering of research, in training students to become investigators and teachers in special fields of learning, in the application of research methods to the problems of society and industry, and in supplying opportunity for further and advanced study by those who have already completed a college course. The University of North Carolina has been interested in research for more than a century, and has made contributions in science, the social sciences, and the languages. Through its research clubs and learned journals, as well as through publications and other contributions to learning made by members of its faculty, the University has acquired the authority to give advanced instruction. For this it is competent both from the standpoint of the personnel of its faculty and in material equipment in libraries and laboratories.

Instruction leading to the Master's degree was offered at this institution prior to the American Civil War, and such higher degrees were granted in course. Formal action with high standards in requirements was taken in 1876 to establish a system of graduate, as distinct from undergraduate, instruction. The first Doctor's degree was awarded in 1883. A Graduate Bulletin, issued in 1885, showed that nearly all departments offered advanced courses. The number of students during those years was small, but the work accomplished in both the humanities and the sciences was of distinguished quality. Given distinct status in 1904 and the leadership of a Dean, the Graduate School has experienced steady, and since 1920, rapid growth.

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

The institution is a member of the Association of American Universities; the Graduate School annually publishes a bulletin, entitled *Research in Progress,* which records analytically the scholarly contributions of the faculty and graduate students; the School has been assigned control of a building wherein graduate men students may live and have a club which affords opportunity for friendly association; the School operates an Appointments Bureau, which supplies facilities for placement.

Work for advanced degrees is under the supervision of the Graduate Faculty. The immediate direction of the Graduate School is in charge of an Administrative Board, of which the Dean is chairman. Special requirements and regulations made by this board are outlined in the Catalogue of the Graduate School, which is published annually and is recognized as the official publication of the Graduate School.

*THE CURRICULUM IN COMPARATIVE LINGUISTICS

In this curriculum the facilities available within the University for the study of comparative linguistics and philology are organized. It is possible for students to offer programs of study in this subject leading to the degrees of Master of Arts and Doctor of Philosophy. It is also possible for those with majors in language to secure a minor in comparative linguistics.

**THE DIVISION OF PUBLIC WELFARE AND SOCIAL WORK

ROY MELTON BROWN, Ph.D., *Director*

Since 1920 the University has offered training in social work with the primary emphasis on public welfare. Within its chosen field the Division has directed attention first to an understanding of the problems with which the social worker must deal and a knowledge of the social sciences upon which the solution of these problems must be based. As the complement of this scientific knowledge it offers training in the techniques of social work with practical experience, particularly in the field of public welfare and in rural social work.

The School offers a graduate curriculum providing two years' work and leading to the degree of Master of Science in Social Work. In general a bachelor's degree from a college or university of recognized standing and with undergraduate emphasis on sociology and the other social sciences is required for admission. An occasional mature student who does not have a bachelor's degree may be admitted as a special student. Admission to the

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* The Administrative Committee: The Dean (Chairman) and Professors Lane (Secretary), Boggs, Ericson, Harrer, Holmes.

** The Administrative Committee: Professors Pierson, Odum, Hobbs, Woosley, Sanders, Crane.

Division does not necessarily mean admission to candidacy for a degree.

For details the special catalogue of the Division of Public Welfare and Social Work should be consulted.

*THE CURRICULUM IN FOLKLORE

A curriculum has been authorized in which the facilities of the University available in such departments as English, Germanic Languages, Music, Romance Languages, and Sociology have been mobilized in the interest of students who desire to undertake a major or a minor in Folklore. It will hereafter be possible for a candidate for the A.M. degree to secure a major in Folklore or for a candidate for the Ph.D. degree to secure a minor in that subject.

**THE CURRICULUM IN PUBLIC HEALTH

This curriculum, leading to both master's and doctor's degrees, has been authorized by the Administrative Board of the Graduate School. For information consult the Catalogue of the Graduate School and the special bulletin of the Division of Public Health.

GRADUATE DEGREES

The degrees under the supervision of the Graduate Faculty are Master of Arts (A.M.), Master of Science (S.M.), and Doctor of Philosophy (Ph.D.). For a complete statement of the requirements for these degrees reference must be made to the special Catalogue of the Graduate School.

SUMMARY OF THE REQUIREMENTS FOR HIGHER DEGREES

Master's Degrees

1. A bachelor's degree from a recognized institution.
2. A minimum period of three quarters of resident study.
3. A reading knowledge of one modern foreign language. (But see Plans B and C in the Department of Education.)
4. Nine graduate courses, six of which must be in the department of the major.
5. A written examination in the field of the major.
6. An oral examination covering the entire field of study.
7. A thesis.

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* Administrative Committee: The Dean (Chairman); Professors Boggs, Holmes, Hudson, Jente, Johnson.

** Administrative Committee: The Dean (Chairman); Dr. M. J. Rosenau (Director); Dean W. deB. MacNider; Dr. Herman G. Baity; Dr. H. W. Brown; Dr. R. W. Bost.

DOCTOR OF PHILSOPHY

1. Admission is the same as for the master's degree.
2. A minimum of three years of graduate study, at least one of which must be at the University of North Carolina.
3. A reading knowledge of French and German. (But see Catalogue of the Graduate School.)
4. A major covering adequately the field of major interest and at least six courses in a minor, which may under special circumstances be in the same department.
5. A preliminary oral examination.
6. A written examination in the field of major interest.
7. An oral examination covering the entire field of study.
8. A dissertation.

CATALOGUE OF THE GRADUATE SCHOOL

For information concerning the Graduate Faculty, fields of research, fellowships and other aids, expenses and tuition, and for regulations governing courses of study, credits, admissions, examinations, and higher degrees, reference must be made to the special Catalogue of the Graduate School.

THE SCHOOL OF LAW

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt., *President*
ROBERT BURTON HOUSE, A.M., LL.D., *Dean of Administration*
MAURICE TAYLOR VANHECKE, Ph.B., J.D., *Dean*

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MILLARD SHERIDAN BRECKENRIDGE, Ph.B., LL.B.
FREDERICK BAYS MCCALL, A.B., LL.B.

GENERAL STATEMENT

The School of Law, now in its ninety-sixth year, and with a full-time faculty of eight, offers a three year course leading toward the degrees of LL.B. and J.D. It is on the approved list of the North Carolina and New York Boards of Law Examiners, and of the American Bar Association. It is a member of the Association of American Law Schools, and is one of thirty of the leading law schools of the country in which a chapter of the honorary society of the Order of the Coif has been established.

While greater emphasis is placed upon North Carolina decisions and statutes than upon those of the other states, the legal doctrines are studied as a part of the Anglo-American common-law system. Thus the school prepares its students for practice in North Carolina and in every other State in the Union.

Except for a limited number of special students, candidates for admission to the School of Law must have completed satisfactorily the first three years of a regular college curriculum leading to a standard degree. If this work has followed the *special* program offered by the College of Arts and Sciences or by the School of Commerce of this University, the student may receive the Bachelor's degree in Arts or in Commerce, as the case may be, upon the satisfactory completion of the first year in law. Applications for admission as regular students must be approved by the Dean of Admissions of the University. For the details of these undergraduate programs see pages 120 and 136.

The School of Law occupies the whole of Manning Hall. The Carr Dormitory, adjacent to Manning Hall, has been set aside for exclusive occupancy by law students. The Law Library, in charge of two trained law librarians and a staff of assistants, now numbers approximately 41,500 volumes.

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

The curriculum covers a period of three annual sessions, but this time may be shortened by attendance during summer sessions.

The students of the School of Law are regularly enrolled in the University, enjoy all the privileges of University students, and are amenable to all general University regulations and to the special regulations of the School.

The summer session of the School of Law offers opportunities for students to supplement the work of the regular year by additional courses, some of which are not otherwise available, or to shorten the period of study for the law degree. A full curriculum is provided for advanced students. Beginning students are not admitted in the summer session. The summer faculty always includes as visiting professors a number of distinguished law teachers from other universities.

Opportunities for individual work are afforded to especially qualified students through membership upon the student editorial staff of the North Carolina Law Review, as faculty research assistants, and as library assistants.

For further information, please write to the Dean of the School of Law for the separate bulletin of that school.

THE SCHOOL OF MEDICINE

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
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Walter Reece Berryhill, A.B., M.D., *Assistant Dean*
Milton Joseph Rosenau, A.M., M.D., *Director of the Division of Public Health*

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Wesley Critz George, Ph.D., *Chairman*
H. Ward Ferrill, Ph.D.
Walter Reece Berryhill, A.B., M.D.

GENERAL STATEMENT

The School of Medicine was established in 1879 under the direction of Dr. Thomas W. Harris. A course in theoretical and practical medicine was offered under the preceptorial system, but the plan was found impracticable and was abandoned in 1886. In 1890, a more orderly and logical arrangement of the subjects in the medical course having developed, it became possible for an institution without clinical facilities to offer instruction in the pre-clinical subjects, and the school was reopened with Dr. Richard H. Whitehead as Dean and Professor of Anatomy. Under his guidance it soon won recognition for thoroughness of instruction and excellence in scholarship and has since continued without interruption to its growth. At first the course covered only one year, but in 1896, the medical course having been extended in the better class of schools to four years, a two-year course was inaugurated. In 1900 the School of Medicine was incorporated as an intergral part of the University and was reorganized to meet the requirements of the first two years of the full four-year course leading to the degree of Doctor of Medicine. In 1902 it was expanded into a four-year school, and the clinical subjects of the third and fourth years were offered in Raleigh under the direction of Dr. Hubert A. Royster as Dean. After a few years of successful operation, this plan had to be abandoned for lack of financial support, and the clinical subjects were dropped. In 1908 the school was admitted to membership in the Association of American Medical Colleges, and is ranked in the class "A" group by the American Medical Association.

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

The curriculum is arranged to cover all of the laboratory or pre-clinical subjects of the four-year course in medicine and includes, in the last part of the second year, introductory clinical courses which serve to lessen the abruptness of the change from the laboratory to the hospital.

Students who have successfully completed the two-year course are transferred into the third year of American medical colleges of the highest rank from which they receive the degree of Doctor of Medicine. Sixty percent of those who have attended the school have returned to North Carolina to practise medicine. Approximately twenty-five percent of the physicians now in active practice in North Carolina received the first two years of their medical training here.

The minimal requirements for admission to the medical curriculum are three years of college work, which must include a minimum of twelve semester hours in chemistry (including four semester hours of organic chemistry), eight semester hours in biology (at least 4 semester hours being in zoology), eight semester hours in physics (which must have required trigonometry as prerequisite), six semester hours in English, and six semester hours in a modern foreign language (French or German recommended) beyond the amount required in the language chosen for admission to the intermediate courses in the University. In case of an exceptionally well qualified applicant the prerequisite work in trigonometry for physics may be waived. *No student will be admitted with less than three years of accredited collegiate work, or with a condition on any of the required subjects in science.* All admissions are decided by the Dean of the School of Medicine and a special Committee on Admissions to the School. The Dean and special committee reserve the right to select from the entire list of applicants those who in their judgment are best qualified for the study of medicine and whose credentials have been approved by the Dean of Admissions of the University.

Candidates for admission to the second year of the medical curriculum must present certificates from an accredited medical school stating that they have had the required fifteen units, at least three years of college work as indicated above, and have completed the subjects of the first year of the medical course as outlined.

The University recommends to each applicant that he prepare himself as fully as his age and resources permit. If possible he should first secure a bachelor's degree, either A.B. or S.B., before beginning his professional study. If this is impracticable, he may secure excellent preparation by completing the academic curriculum leading to the degree of Bachelor of Science in Medicine. The degree is conferred upon the completion of the first year's work in the medical school. For the requirements (academic) please see page 124 of this catalogue.

THE MEDICAL CURRICULUM

The medical curriculum covers two years of thirty-four weeks each, divided into three periods, or quarters, of approximately equal length. It is organized into six departments: Anatomy, Bacteriology, Biological Chemistry, Pathology, Pharmacology, and Physiology, with additional courses in Physical Diagnosis, Principles of Surgery, and Obstetrics, and an affiliated Division of Public Health. For description of the courses and other details see Special Catalogue of the Medical School.

DIVISION OF PUBLIC HEALTH

Milton Joseph Rosenau, A.M., M.D., *Director*

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Mark V. Ziegler, A.B., M.D.
Harold William Brown, A.B., M.S., Sc.D., M.D., Dr.P.H.
Edgar Wallace Knight, Ph.D.
Robert Ervin Coker, Ph.D.
William Whatley Pierson, Ph.D.

GENERAL STATEMENT

The University of North Carolina has established a Division of Public Health and offers courses of study to supplement the basic work in this field, in order that immediate and practical needs of trained personnel in this State and region may be adequately met. This service is made possible through the coordination of the facilities and the staffs of the School of

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Medicine of the University and the North Carolina State Board of Health, the agencies of the State which are concerned with the problems of public health.

The curriculum covers a period of sixteen weeks and includes both intra-mural instruction and field work. The courses offered are those best adapted to equip a physician for the special responsibilities of a health officer and those which may be covered within a short period of intensive study. One such short course is given in the fall quarter.

The students in the Division of Public Health are enrolled in the University of North Carolina and enjoy all the rights and privileges of the general student body. Upon completion of the course a certificate of credit is awarded by the University and this is endorsed by the North Carolina State Board of Health.

The United States Public Health Service has designated the University of North Carolina as the teaching unit in public health for Interstate Sanitary District No. 2, comprising the States of Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, and the District of Columbia. See Special Bulletin of the Division of Public Health.

In the Graduate School there has been set up a "Curriculum in Public Health." For degrees offered and requirements see the Special Bulletin of the Division of Public Health.

The Division publishes a bulletin giving full information on its work. This may be secured by writing The Secretary of the Division.

THE SCHOOL OF PHARMACY

Frank Porter Graham, M.A., LL.D., D.C.L., D.Litt., *President*
Robert Burton House, A.M., LL.D., *Dean of Administration*
John Grover Beard, Ph.G., Ph.M., *Dean*

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William deBerniere MacNider, M.D., Sc.D., LL.D.
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Marion Lee Jacobs, Ph.D.
Henry Roland Totten, Ph.D.
Ralph Walton Bost, Ph.D.
Ira Winfield Rose, Ph.G.

GENERAL STATEMENT

In 1880 Dr. Thomas W. Harris was instrumental in establishing a School of Pharmacy at the University in connection with the School of Medicine. The school was continued until the resignation of Doctor Harris in 1886, when it was abandoned. In 1890 the school was revived by Dr. Richard H. Whitehead, but again its career was short. Finally, in March, 1897, in response to urgent requests made by the North Carolina Pharmaceutical Association, the present school was established and Edward Vernon Howell was appointed Professor of Pharmacy and Dean.

The School in 1925 obtained exclusive use of its present building (Howell Hall of Pharmacy). This building contains 35 rooms, 22,000 sq. ft. of floor space, and is located in the northeast section of the campus, adjacent to the Arboretum, the Medicinal Plant Gardens, and the Biology building (Davie Hall).

The minimum offerings of the School are based on four years of study which lead to the degree of Bachelor of Science in Pharmacy (S.B. in Phar.).

The School was admitted to membership in the American Association of Colleges of Pharmacy in 1917. This organization was formed for the promotion of thorough scientific work in the profession of pharmacy. It maintains high standards for membership based on the number and training of the faculty, thoroughness of work offered, the quality of the curriculum, the number of students, the financial support of the school, and the facilities for carrying on the work.

The University of the State of New York credits fully the four years' work here as evidence of due preparation for the examinations of the licensing board of that state. The same sort of credit now extended by all other state examining boards.

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* The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

Students of pharmacy enjoy all of the privileges of the University and are subject to all of its general regulations, as well as to the special regulations of the School of Pharmacy.

Properly qualified applicants of either sex may be admitted, provided they meet the requirements for entrance. Their credentials are first submitted to the Associate Registrar of the University.

The School of Pharmacy recognizes that its graduates may be expected to pursue one or another of three related but definitely different forms of pharmaceutical practice. They may become prescriptionists in or owners of retail drug stores; they may elect to enter the field of medicinal manufacture; or they may decide to establish technical laboratories or enter the U. S. Public Health Service. Each different form of effort requires a specialized type of training and the School has attempted to provide such specialization.

By action of the Administrative Board of the School of Pharmacy the Dean of the School is authorized to allow substitutions of certain academic subjects for certain prescribed pharmaceutical courses in the cases of rising third year students who in his opinion have made such records as to warrant their acceptance after graduation into standard medical schools.

The School of Pharmacy urges superior students who are desirous of securing the benefits of thorough specialized training and intensive research work to pursue an additional year in the Graduate School where a course of training leading to the degree of Master of Science (S.M. in Phar.) is offered. The three majors available are Materia Medica and Pharmacognosy, Pharmaceutical Chemistry, and Pharmacy.

A student who has completed one or more years of accredited work in a recognized school of pharmacy and submits satisfactory evidence of having completed the entrance requirements and courses equivalent to those prescribed in the curriculum required for the degree of S.B. in Pharmacy, may be admitted with advanced standing and proceed for this degree. The minimum requirement of residence for a degree is a period of three quarters within the period of twelve months. A full year's work comprising at least forty-five quarter hours must be completed by a transferring student. Beginning January 1, 1938, the American Association of Colleges of Pharmacy requires of its member colleges that students transferring from a non-pharmaceutical college must spend a minimum of three years in a standard college of pharmacy in order to be graduated with a degree of S.B. in Pharmacy.

For further information, please write to the Dean of the School of Pharmacy for the special catalogue of that school.

THE SCHOOL OF LIBRARY SCIENCE

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt., *President*
ROBERT BURTON HOUSE, A.M., LL.D., *Dean of Administration*
*CARL MILTON WHITE, Ph.D., *Chairman, Administrative Board, Division of Library and Library School*
SUSAN GREY AKERS, Ph.D., *Director*

**THE ADMINISTRATIVE BOARD
DIVISION OF LIBRARY AND LIBRARY SCHOOL

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MAURICE TAYLOR VANHECKE, Ph.B., J.D.
JOHN BROOKS WOOSLEY, Ph.D.

GENERAL STATEMENT

The School of Library Science opened in September, 1931, as a unit of the University of North Carolina. Made possible by a grant from the Carnegie Corporation, it is the culmination of a series of library science courses offered in the summer and regular terms since 1904. The School is accredited by the American Library Association and the Southern Association of Colleges and Secondary Schools.

The curricula of the school offer a basic course preparing the student for general library work. Three curricula are offered, permitting the student to specialize in preparation for work in one of three fields: elementary and high school libraries, city and county public libraries, or college and university libraries.

Quarters for the school, comprising laboratory and classrooms for the students and offices for the faculty, are in the University Library.

The town school system maintains a high school library and a combined elementary school and public children's library available for observation. Within driving distance of from thirty minutes to two hours are the city library system and the libraries of Duke University and its Woman's College at Durham, the State Library and the Library Commission headquarters at Raleigh, the public library and the libraries of the Woman's College of the University of North Carolina at Greensboro.

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* Resigned, effective September 1, 1940.

** The Dean of Administration, the Registrar, and the Dean of Students are *ex officio* members of each Administrative Board.

The principal requirement for admission is a bachelor's degree from an accredited college or university, with the exception that students of any accredited college or university who can qualify as full seniors with no deficiencies whatsoever in this institution may be admitted to the curriculum for public librarians or school librarians.

Applicants are expected to have received a grade of B (=90%) or better in at least fifty per cent of their undergraduate work. An applicant's college degree may not be approved if his course included an undue proportion of vocational or professional subjects such as library science, education, home economics, or agriculture. For certain library positions thorough training in one of these or in some other field is essential but it should be in addition to rather than as part of his undergraduate preparation.

A reading knowledge of two modern foreign languages is essential to satisfactory library work.

Students must have reasonable ability in typewriting before admission to the school. A test in typewriting ability will be held early in the fall quarter and summer session.

Those over thirty-five years of age are advised not to apply for admission to the school unless they have been continuously engaged in library work or in some similar pursuit.

Because of the special nature of many phases of library work, it is recommended that before beginning the course applicants familiarize themselves with library routines and terms, either through practice in a near-by library or by reading.

Applicants must show evidences of ability to do library work and must have had a well-balanced selection of courses leading to the required bachelor's degree. The class will be chosen on a basis of individual promise of success.

It is recommended that applicants interview a member of the faculty of the school before admission.

For definite recommendations on the content of the preparatory work see the special catalogue of the School of Library Science.

Applicants should plan their entrance into the school at the beginning of the fall quarter or summer session. Many courses have prerequisite work which cannot be taken unless the curriculum is begun at one of these times.

Certain courses are open to advanced undergraduates in the College of Arts and Sciences. They are listed under Department of Library Science in this catalogue at page 220.

On the completion of a curriculum in the School of Library Science, the University will grant to students entering with senior standing the degree of Bachelor of Arts; to those entering with a bachelor's degree, the degree of Bachelor of Arts in Library Science.

Nine courses must be satisfactorily completed in residence in the University of North Carolina for a degree in Library Science. Students who are admitted with advanced standing in library science must complete an equivalent number of courses in the school or in another branch of the University.

The residence requirement for a degree is three academic quarters. This requirement must be completed within five years.

The School of Library Science does not undertake to find positions for its graduates. It does, however, maintain, in cooperation with the other University bureaus, a placement bureau which endeavors to bring together its graduates and those who wish to employ library workers.

SUMMER SESSION

The courses of the regular session are repeated and all the requirements which apply in the regular session apply in the summer session.

A normal schedule of three courses will make it possible to complete the work for a degree in three summers.

APPLICATION FOR ADMISSION

Application for admission to the school for either the regular session or the summer session should be made six months in advance, if possible. Application should be made on forms which are secured from the *Director, School of Library Science, The University of North Carolina, Chapel Hill, N. C.*

SPECIAL CATALOGUE

Detailed information is given in a special catalogue of the School of Library Science.

PART SIX

COMMENCEMENT
CATALOGUE OF STUDENTS
INDEX

ONE HUNDRED AND FORTY-FIFTH COMMENCEMENT
1939

Sunday, June 4th, Baccalaureate Sunday

BACCALAUREATE SERMON, DR. WYATT AIKEN SMART
LAWN CONCERT—MEMORIAL CHIMES
SAMPSON AND DELILAH—SAINT-SAENS, CHORAL SOCIETY

Monday, June 5th, Class Day and Parents' Day

LAST CLASS MEETING—PRESIDENT'S AND DEANS' RECEPTION
LUNCHEON FOR SENIORS AND THEIR PARENTS
NEW FOLK PLAYS, CAROLINA PLAYMAKERS, LAWN CONCERT
ALUMNI CLASS REUNION SUPPERS
REUNION CLASS SUPPERS—"Old Students' Club,"
and Classes of 1897, 1898, 1899, 1900, 1909, 1916, 1917, 1918, 1919, and 1914 for Silver Reunion
FOLK PLAYS (Repeated), CAROLINA PLAYMAKERS
ALUMNI RECEPTION AND BALL

Tuesday, June 6th, Alumni Day and Graduation Exercises

BREAKFAST REUNION, Classes '35, '36, '37, '38
INFORMAL CLASS GATHERINGS—REUNION CLASSES
ALUMNI PARADE—ALUMNI LUNCHEON
ORGAN RECITAL—BAND CONCERT
ACADEMIC PROCESSION
GRADUATION EXERCISES
COMMENCEMENT ADDRESS—JOHN TEMPLE GRAVES II
UNIVERSITY CONCERT BAND
PRESIDENT OF THE SENIOR CLASS
FAREWELL MESSAGE TO GRADUATES, PRESIDENT GRAHAM
PRESENTATION OF DIPLOMAS AND ADDRESS
GOVERNOR CLYDE R. HOEY

AWARDING OF HONORARY DEGREES

DEGREES IN COURSE

Bachelors of Arts

Robert Leonard Adam
Molly Albritton
Herbert Edward Alderman
William Watson Alston
Adele Austin
Joseph P. Axelrod
Richard Albert Baddour
Adelaide Bailey
Richard Browne Bailey
Louis Robert Barba
G. Warren Barrett
Doris Bartlett
Dannitte Mays Beattie
Edna Bengel
Robert Matthew Bernstein
John Henry Blalock
Lyal Caughy Boice
Paul Lambert Borden, Jr.
William Murphy Bowman
Charles Eldon Brady
Ralph Mayne Bragdon, Jr.
Waverly Harold Branch
William Samuel Bridges
Mildred Louise Britt
Edmund Brodie
James Taylor Brooks
Eloise Brady Broughton
Ellis Spencer Bullins
Gordon Burns
Alan Taliaferro Calhoun
Henry Nash Carrier, Jr.
Herbert Ross Cary-Elwes
Tony Nickolas Cernugel
Jack Allan Cheek
Joseph Blount Cheshire IV
William McWhorter Cochrane
Gretchen Schoonmaker Cocke
Constance Collis
Ernest Craige
Mary Virginia Crawford
William Lunsford Crew
as of August, 1938
Guy Newby Crowell
Olive Echols Cruikshank
Anthony Dominic Cucuzzella
Kate Gillespie Cushman
William Joseph Graham Davis
Victor Weyher Dawson
Roslyn Irene Dince (with honors)
Arthur Harvey Ditt
Ben Franklin Dixon III
Joseph Van S. Donaldson
Wallace G. Dunham
Miriam Durrett
Thomas Cary Duncan Eaves
(with honors)
Edwin Timanus Elliot
George Russell Faucette
Mary Louise Felkel
James Frank Ferrell
Carl Murray Fistel
Kathryn Briggs Fleming
Strother Callaway Fleming, Jr.
James Pleasant Floyd, Jr.
Sandy Richard Flynt
Wayne Alexander Fonvielle
Gus Evans Forbes, Jr.
Benjamin Dixon Gaddy, Jr.
Elizabeth Langhorne Gammon
Ruth Louise Garrett
Nathan Teasdale Gegerson
Wilbur Lytle Gholson
Virginia Marie Giddens
Donnell Gilliam, Jr.
Hillard Gold
Murray Goldberg
Carol Goodman
Edgar Hunt Goold, Jr.
Alexander Hawkins Graham, Jr.
Mary Louise Greene
Martha McDowell Gunter
George William Harris
Rosalie Haynes
Thomas Carroll Haywood
John Steele Henderson
Robertson Clemens Hesse
William Leonard Hewitt
Carlisle Wallace Higgins, Jr.
Seavy Highsmith, Jr.
Sam Earle Hobbs
Irene Anne Hodgins
Frances Rebecca Holland
Jonathan Ivins Holmes
Thomas Hall Holmes
Albert Hamilton Holt
Julia Sanders Holt
Basil Tourneur Horsfield, Jr.
Shelby E. Horton, Jr.
Logan Douglas Howell
Jack Hughes
Lucy Jane Hunter
Mary Frances Hunter
Haywood Brill Huntley
Thomas Edwin Hyatt
Emory Stuart Isaacs
Eleanor Pendleton Jackson
Paul Roberts Jernigan
Herbert Victor Karp

John Thomas Kilpatrick, Jr.
Milton Kind
Jasper Jack Kraynick
William Clarence Kluttz
Carl Eugene Langston
George Levine
David Martin Lieberman
James William Little
Mary Locksley Long
Philip Edward Lucas
Elizabeth Morrison Malone
Rachel Banks McLain
James Wilton McLean
Thomas Richard Meder (with honors)
Allen Hunter Merrill
Henry Shadrock Messick
William Whitehead Michaux (with honors)
Perry Watson Miles, Jr.
John Augustus Moore, Jr.
Mary Virginia Neal Morgan
Thomas Alfred Morgan, Jr.
Roderick Goldston Murchison, Jr.
Richard Thomas Myers
Thomas Jerome Myers, Jr.
Anne Mariah Nash
Marie Agnes Nicholson
Elizabeth Wells Norcross
John Burrell Oliver
Clifford Edney Pace
Sallie Antoinette Page
William Thomas Parrott, Jr.
Brooks Patten
Annie Donnell Patterson
Frank Neville Patterson, Jr.
James Edward Peacock
Janet Reid Pendleton
Ray Alexander Price
Robert Hubbard Putney, Jr.
John Watkins Rankin
Horace Wilson Raper
Iris Elizabeth Rawls
Jesse Byers Reese (with honors)
John Bunyan Riggsbee
James Fred Rippy, Jr.
Charles Moore Robinson, Jr.
George Carraway Rogers
Wiley Mager Rogers, Jr.
Carlton Alexander Rood
Wilson Andrew Rood
Albert Philip Rosen
Helen Shirley Rosenman
Melvin Sakolsky
Francis Stewart Saunders
Oliver Lawrence Sause
John Quincy Seawell, Jr.
Nancy Marie Seth (Smith)
William Raymond Seth, Jr.
Eugene Craig Shell
Richard Fuller Shryock
Anna Frances Shuford
Nancy Flanders Sitterson
Thompson Hunter Skeen
Erwin O. Smigel
Barbara Alice Smith
Erskine Wakefield Smith
Foyell Pennington Smith
Rebecca Jordan Smith
Samuel Winslow Smith
Virginia Elizabeth Smith
Elizabeth Ann Spencer
Gordon Sefton Stevens
Matthew Alfred Stroup
Marshall Edward Suther, Jr.
Frederick Isler Sutton, Jr.
James Edward Sutton
Willis Anderson Sutton, Jr.
Humphrey Hathaway Swift III
Kenneth Spencer Tanner, Jr.
Charles Graham Tart
James Alexander Taylor
Cornelia Lee Thigpen
John Waties Thomas, Jr.
Mary Lindsay Thornton
John Surrey Trimpey
Gladys Best Tripp
Frederick Lionel Tunick
Winford H. Turlington
Eugene Alfred Turner, Jr.
John Wesley Umstead III
Milton Lonnie Wagoner, Jr.
Elizabeth Wahrenberger
Dorothy Louise Walker
Hal Hammer Walker
Thomas Marsh Ward
Robert Wilson Wells
Joe Linn Wertz
Claud Roberson Wheatly, Jr.
William White Whitley
Claire Delano Whitmore
Mary Wood Winslow
Elsa Smedes Winters
Eugene Paul Wolfe
James Leake Woodson
Harry Clay Yeatman
Arthur William Ziegler

Bachelor of Arts in Education

John Edward Farrior, Jr.

Bachelors of Arts in Journalism

William Griffin Arey, Jr.
Virginia Ragsdale Bower
Robert Palmer Brewer
Edna Hines Bynum
Hayden Croxton Clement
William Jeffrey Cole
Estelle Wyse Cuddy
Frieda M. Davis
Howard Baxter Easter
Voit Gilmore
Nellie Peake Harkins
Laffitte Howard
Harvey Kaplan
M. Edward Karlin
Janie Marie Lambert
Ruth Mitchell Parsons
Lytle Neale Patrick, Jr.
William Lee Rufty
Elliott Gilford Shaw, Jr.
Henry Theodoric Terry, Jr.

Bachelors of Science in Chemistry

Raymond Hill Dudley
Bulow Webster Dysart
Luther Lindon Hardison
Glendon Davis Kyker
Hubert Jones Privette
Leah Robinson
Harold Lauck Sager
Gershon Joseph Shugar
Charles Jackson Starnes
Harry Vaine Thompson
Charles Frank Vilbrandt

Bachelors of Science in Geology

Sam Davis Broadhurst
Richard Coogan
John Lindsey Matthews, Jr.

Bachelors of Science in Medicine

Robert Shelton Beam
Charles William Beaven
Henry Calvin Guynes, Jr.
Samuel Westbrook Hatcher
Hiram Lee Large, Jr.
French Howell McCain
Samuel Wright

Bachelors of Science in Physics

John Ebert Gibson
Turner Eugene Pardue

Bachelor of Science in Chemical Engineering

Richard Wright Reaves

Bachelor of Science in Civil Engineering

Edwin Francis Coffin, Jr.

Bachelor of Science in Public Administration

Kent Mathewson

Bachelors of Science in Commerce

Herbert H. Alexander
Malcolm Burdette Allen
Roy Dwight Apple
Claude Clark Armfield, Jr.
Artemus Auman, Jr.
James Maxton Boone
James Ballard Brame
Francis Marion Brewer
Leverett Frisbie Bristol
Walter Anderson Bunch, Jr.
William Fowden Clark
Richard Erskine Clements. Jr.
Clarence Dowell Coburn
Robert J. Conderman
Frank Calvin Cox
Clifton Morton Craig, Jr.
Robert Ervin Cunningham
James Sloan Currie
Arthur Fletcher Daniel
Glenn Benson Davis, Jr.
Robert G. S. Davis
Samuel Davis, Jr.

Walter Edison Deaton
Lewis Belton Doggett
John Holland Eddleman
Marion Cecil Ernst
Stuart Keith Eutsler
Frank Morgan Farrell
William Lee Farthing, Jr.
Henry Hunter Fitts
Thomas McElhenney Fry
Robert Franklin Garland
James C. Gibson
Fletcher Harrison Gregory, Jr.
William Howard Griffin
Foy Eugene Grubb
Alexander Weldon Hall
Albert Broadus Hamilton
Ned Sprunt Hamilton
Franklin Wills Hancock III
Robert Adrian Harris
Harry Lowell Hawkins
William Houston Hendrix, Jr.
Elwood Carey Hewitt
Eugene Bennett Hill
Harvey Carrow Hines, Jr.
Herbert Harvey Hirschfeld
Claude Elton Hobbs, Jr.
Graham Badger Hobbs
David Williams Hoefer
Boyce Maxwell Hoffman
Milton Earl Hogan, Jr.
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William Shelton Ray
Randolph Hampton Reece
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James Jordan Rowland
Joe Brent Russell
Sidney Melvin Schwartz
Sidney Shiller
Sidney H. Siegel
Berkeley Leo Simmons
Simon Carlyle Sitterson, Jr.
John William Slate, Jr.
Gilbert Smith
Robert Martin Spanier
Vernon Starr Sparrow
Grady Lawrence Swaim
James Louis Talton
James Marion Tayloe
Kenneth Pollard Taylor
William G. Teague
Jack Edwards Thornton
Junius Wynne Tillery
Joseph Robert Tracy
H. Alan Truex
Linwood Jones Tunnell
Harvey Blair Tyndall
Douglas Randolph Umstead
Theron Acriel Upchurch
Wingate Boushall Upton
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Marvin Bright Utley, Jr.
Stanley Howard VanCise
Frank Hart Wakeley
Charles Paddock Wales, Jr.
Leonard Grean Weaver
Robert Weinberger
James Leslie Wharton, Jr.
Raymond Joseph Wildman
Louis George Wilkins

George Melvin Williams, Jr.
Thomas Grace Willis, Jr.
Peter Thomas Wilson, Jr.
John Wallace Winborne, Jr.
Vaughan Sharp Winborne
Rutherford Nance Yeates
Alex James Ziady

Bachelors of Laws

James Dickson Carr
Edward Breeden Clark
Virginia Adams Douglas
Harold Winford Gavin
Moses Braxton Gillam, Jr.
(with honors)
Clarence A. Griffin, Jr.
James Nathaniel Hamrick
James Harden Howell, Jr.
Robert Cooke Howison, Jr.
(with honors)
Joseph Mordecai Kittner
Elmer Rosenthal Oettinger, Jr.
Ezra Alphonso Parker
Samuel Erixene Robinson
Sarah Starr
Oscar Leak Tyree
Stewart Bethune Warren
Robert Ransom Williams, Jr.
Raymond Buckner Witt, Jr.

Bachelors of Science in Pharmacy

Shelton Bickett Boyd
Eugene Tulie Brown
James Hamilton Fox
Clyde Loriane Futrell
Ellis Patrick Gaddy
William Bradley Halsey
Aldridge Kirk Hardee, Jr.
George Haywood Jones
Marvin Morton Kessler
Grey Bryan Kornegay
Maggie Lou Moore
William Vinson Proctor
William Lee Sloan
Claude Vernon Timberlake, Jr.
Joseph Peyton Tunstall
Lovett Aldin Warren, Jr.
Perry Vivian Waters

Bachelors of Arts in Library Science

Agatha Boyd Adams
Helen Towne Armstrong
Berta Elise Arnold
Carolina Gordon Belser
Richard Titsworth Binford
Carolyn Ramsey Black
Susan Brownrigg Borden
Elisabeth Agnes Councill
Annie Katherine Dement
Oscar Paul Dickinson, Jr.
Mary Elizabeth Faucette
Elizabeth Grieve Ferguson
Florence Pauline Fowlkes
Charlesanna Louise Fox
Eleanor Smith Godfrey
Verna Mae Hahn
Emma Linton Holman
Frances Parker Howard
Margaret Ridley Long
Edith Roberts McIntosh
Mary Ochse McKee
Martha Morris
Elizabeth Gordon Moseley
Frances Ross Mullican
Mary Edith Plowden
Elisabeth Redfern
Nina May Robinson
Isabel Knox Shipley
Lois Margaret Smathers
Marguerite Euen Smith
Samray Smith
Elizabeth Anna Valentine
Charlotte Meadows Wester
Adelaide Paris Winslow
Mildred Seay Young

Masters of Science

James Cyril Dickson Blaine
Howard Engeler Vitz

Masters of Arts

Mary Theresa Allen
Emmett Sams Ashcraft
Rietta Winn Bailey
Laura Elizabeth Bland
Anne Bowen
Eldridge Roger Boyle, Jr.
Hattie Jean Brabham
Agnes Florence Brown

Joseph Lee Brown
Hiden Toy Cox
Emily Polk Crow
Alvin LeRoy Duckett
Eleanor Larue Edwards
William Omer Foster
Robert Belmont Freeman
Robert Lynn Gault
Arabella Gore
Edward Henry Grosiak
John Wadsworth Gunter
Nelson George Hairston
Raymond Clement Harris
Willard Chappell Hewitt
Henry Hoyt Hilton, Jr.
Anne Miller Holman
Robert Hooke
James Glenn Hutchinson
Lealon Norvel Jones
John Mitchell Justice
Frederick Henry Koch, Jr.
Nicholas Maurice Korff
James Horace Langston
Fenton Leroy Larson
Dorothy Lewis
Kate Porter Lewis
Robert Guilford Lewis
Anna Gwendolyn MacMullin
Rosalie Fitzhugh McNeill
Katherine Frances Moran
Anne Elizabeth Nowell
Cordelia Evelyn Pass
Gwendolyn Margaret Pharis
William Nelson Rairigh
Virginia Stuart Redfern
Irving Paul Schiller
Sallie Wimberly Sewell
Laura Antoinette Sparks
Elbert Daymond Turner, Jr.
Elizabeth Te-Chen Wang
Mary Williams Ward
Alma Joslyn Whiffen
Herman Frederick Wittmeyer

The University Concert Band

OVERTURE TO THE MARRIAGE OF FIGARO....................*Mozart*

Doctors of Philosophy

Bernard Berger, *Chemistry*
Thesis: The Autoxidation and Gum-Forming Tendencies of Certain Hydrocarbons.

Reece Croxton Blackwell, *Mathematics*
Thesis: Cubics Having R-point Contact with a Plane Curve.

Philip Hawley Burdett, *Chemistry*
Thesis: The Influence of Electrolytes on the Ballo-Electric Effect.

Benjamin Reid Clanton, *Chemistry*
Thesis: The Flotation of Colloidal Suspensions.

Samuel Friend Clark, *Chemistry*
Thesis: A Synthetic Approach to the Constitution of Natural Tannins.

John Ayman Downs, *Romance Languages*
Thesis: French Lyric Poetry 1789-1820.

John Edward Everett, *Chemistry*
Thesis: Studies on Certain Thiocarbonyl and Sulfonium Compounds.

John Albert Fincher, *Zoology*
Thesis: The Origin of the Germ Cells in a Textraxonid Sponge (*Stylotella heliophila* Wilson).

George Clinton Holroyd, *Chemistry*
Thesis: Direct Processing of Whole Cotton.

Ali Kani, *Education*
Thesis: The Reconstruction of Persian Education.

Philip Haxall Latimer, Jr., *Chemistry*
Thesis: Preparation of Certain Aliphatic Sulfonic Acids and Their Derivatives.

Bertie Melvel McGee, *Economics and Commerce*
Thesis: Industrial Development of North Georgia.

Andrew Clark Mathews, *Botany*
Thesis: The Morphological and Cytological Development of the Sporophylls and Seed of *Juniperus virginiana* L.

Mildred Corinna Mendenhall, *Psychology*
Thesis: The Effect of Sodium Phenobarbital on Learning and "Reasoning" in White Rats.

Hubert Vern Park, *Mathematics*
Thesis: Conditions on Two Singular Matrices A and B such that AB and BA may have the Same Reduced Characteristic Function.

Karl Graham Pfeiffer, *English*
Thesis: Periodical Criticism of Water Savage Landor by his English and American Contemporaries.

Mary Claire Randolph, *English*
Thesis: The Neo-Classic Theory of Formal Verse Satire in England.

Charles Louis Seebeck, Jr., *Mathematics*
Thesis: Vectors Associated with a Curve in a Riemann n-space.

James Benson Sellers, *History*
Thesis: History of the Prohibition Movement in Alabama, 1719-1909.

Leland Shanor, *Botany*
Thesis: Studies in the Genus *Olpidiopsis* (Cornu) Fischer.

Honoria Sapelo Treanor, *Romance Languages*
Thesis: Le Roman de Sydrac, Fontaine de Toutes Sciences.

Gordon Herschel Tucker, *Zoology*
Thesis: The Histology of the Gonads and Development of the Egg Envelopes of an Ascidian (*Styela Plicata* Lesueur).

Lyle Lyndon Williams, *Zoology*
Thesis: A Comparative Study of the Development of the Liver in Teleost Fishes with Special Reference to the Relation between Liver and Yolk-Periblast.

The University Concert Band
Bravoda .... *Curzon*

HONORARY DEGREES

Doctors of Laws

Burton Craige
Garland Sevier Ferguson, Jr.

Hark the Sound.............(*Audience is requested to sing*)

BENEDICTION

The University Concert Band
Mannin Veen.................... *Haydn Wood*

Medals, Prizes, and Fellowships

The Eben Alexander Prize in Greek........*Edwin Anderson Penick, Jr.*
The Bryan Prize in Political Science........*Judson Clements Ward, Jr.*
The Archibald Henderson Medal in Mathematics *Martin Bernard Kalkstein*
The Ledoux Fellowship in Chemistry..........*Samuel Adam Wideman*

THE JOSEPH LEWIS GRAHAM MEMORIAL AWARD
James Edward Williams, Jr.

THE GRAHAM KENAN FELLOWSHIPS IN PHILOSOPHY
Dr. Anne Liese Michaelis
Jane Amelia Ross Hammer

THE MILDRED WILLIAMS BUCHAN PRIZE IN PHILOSOPHY
Allen Hunter Merrill
Charles Moore Robinson
George Spencer Steele

THE DELTA SIGMA PI SCHOLARSHIP KEY................*Frank Hart Wakeley*

THE F. W. HANCOCK PRIZE IN PHARMACY.............*Grey Bryan Kornegay*

THE LEHN AND FINK GOLD MEDAL IN PHARMACY....*Aldridge Kirk Hardee*

THE BUXTON WILLIAMS HUNTER MEDAL IN PHARMACY
Joseph Peyton Tunstall

THE ROCKEFELLER FELLOWSHIP IN PLAYWRITING
Frederick George Walsh

THE ROLLAND HOLT AWARD IN PLAYWRITING
Gwendolyn Margaret Pharis

THE PATTERSON AWARD..*George Earl Nethercutt*

THE MANGUM MEDAL..*Voit Gilmore*

THE BINGHAM PRIZE..*Walter Benton Kleeman*

THE ALGERNON SIDNEY SULLIVAN AWARD
Elizabeth Morrison Malone
Eugene Alfred Turner, Jr.
Mrs. Margaret White Graves

Elected to Phi Beta Kappa, 1939: Martin Bernard Kalkstein, President; Adele Austin, Virginia Ragsdale Bower, George Watts Carr, Jr., Edward Ray Dickerson II, Roslyn Irene Dince, William Thomson Dye, Jr., Thomas Cary Duncan Eaves, Jack Phifer Fairley, Mary Louise Greene, Robert Adrian Harris, John Steele Henderson III, Charles Edwin Hinsdale, Herbert Harvey Hirschfeld, Jonathan Ivins Holmes, Ira Nathaniel Howard, Jr., Logan Douglas Howell, Victor Albert Means, Allen Hunter Merrill, Edward Robert Mueller, Thomas Lynch Murphy. John Randolph Provo, Mary Claire Randolph, James Fred Rippy, Jr., Leah Robinson, Cecil LeRoy Sanford, Oliver Lawrence Sause, Sidney Shiller, Barbara Alice Smith, Mary Lindsay Thornton, Linwood Jones Tunnell, Philip Alfred Walker, Robert Street White 3rd, Robert Watson Winston (Honorary), Harry Clay Yeatman.

Elected to Sigma Xi, 1939: Full Membership—Bernard Berger, Reece Croxton Blackwell, Philip Hawley Burdett, Benjamin Reid Clanton, Samuel Friend Clark, William J. E. Crissy, Grant Lester Donnelly, John Edward Everett, Witold Hurewicz, Creighton Clinton Jones, Granvil Charles Kyker, Philip Haxall Latimer, Daniel F. Milam, Howard Movess Nahikian, John William Roy Norton, Walter Wycliffe Owen, Hubert Vern Park, Charles Louis Seebeck, Jr.; *Associate Membership*—Jerry Harrison Allen, Jr., Edwin Ruffin Andrews, Emmet Sams Ashcraft, Harvey Adolphus Bernhardt, Hiden Toy Cox, Lytt Irvine Gardner, Hugh Clifton Gulledge, William Bernard Happoldt, Jr., Willard Chappell Hewitt, Robert Hooke, Lee Leiserson, John Gilmer Mebane, Charles C. Oates, Jr., Eliott Powell Rigsby, Mary Williams Ward, Alma Joslyn Whiffen, Samuel Adam Wideman.

Elected to the Order of the Coif, 1939: Robert Cooke Howison, Jr., Moses Braxton Gillam, Jr., Clarence Alonzo Griffin, Jr.

DEGREES CONFERRED IN AUGUST, 1939

Bachelors of Arts

Henry Bartos
Bernice Euphenia Brantley
Thomas Denmark Burnette
William Blount Campbell, Jr.
John Graham Clark
Nannie Alice Crowder
Joseph Goodman
Mary Elizabeth Henry
John Blount MacLeod
Claude Hunter Moore
George Fountain Parrott
Margaret deLanaudiere Sabine
Cecil LeRoy Sanford
Bernard John Schaaf
Sylvia Belle Sundstrom
John Walter Thibaut
Carlton Gunter Watkins
William Reagan Rhodes Weaver

Bachelors of Arts in Education

Alvis Brooks Petty
Walter Foster Powell
Cornell Campbell Wagner

Bachelors of Science in Geology

William Vincent Conn
James Benjamin Ward

Bachelors of Science in Commerce

Howard Alvin Alfson
Paul Blue
William Mansfield Daniel
Thomas Wesley Gurney
Dodge Halsbond
Thomas Jackson James
William Hugh Leeper
Albert Maynard II
Lee Frankel Melvin, Jr.
Elmer Paul Nance
Robert Jean Rosenzweig
William Guiles Stigelman, Jr.
Charles Clark Weaver
Edward Cyrus Winslow, Jr.

Bachelors of Laws

Alfred Lewis Bulwinkle
William Reid Dalton
Frederick Moye Eagles
Francis Hilliard Fairley
Wylie Fort Parker
William Roy Shelton
Lafayette Williams

Bachelors of Science in Pharmacy

Luther Kenneth Edwards, Jr.
Velma Fleming
George William Honeycutt
James Frederick Rhodes

Bachelors of Arts in Library Science

Estelle Ardrey
Margaret Virginia Baker
Emily Hughes Dickenson
Marion Givens Grimes
Mildred Catherine Herring
Lillian Lorinne Patterson
Mary Eunice Query
Sarah Katherine Vann
Ethel Walker
Hollis Marion Warnock

Masters of Science

Robert Willingham Crutchfield
Edgar Paul Hubert Meibohm
Frank McPherson Sinclair
Bailey Daniel Webb

Masters of Arts in Education

Gilbert Allen Tripp
Robert Sullivan Warren

Masters of Arts

Helen Stockton Andrus
Nancy V. Averitt
William Bracy
Louis Alexander Brown
Jess Lucile Byrd
Charles LaCoste Crane, Jr.
Ernest Vick Deans, Jr.
Mary Atkinson Delaney
Alberto Leo D'Elia
Edna May Douglas
Manly Adolphus Eakins
Alma Mary Grant
Alton Glenn Greene
Ethel Anne Hockemeyer
William Palmer Hudson
Nicholas Teynac Joost, Jr.
John Whitefield Kendrick
Ernest McPherson Lander, Jr.
Eva Hughes Lee
Jessie Belle Lewis
Robert Heft Linton
Joseph Thomas McCullen, Jr.
David Archibald MacDowell
Alexander Hamilton McLeod, Jr.
William Lawrence Mauldin
Frederick Eugene Meyer
Frederic Meyers
Emily Laub Mueller
Thomas Figuers Norfleet, Jr.
Flora Emma Pearsall
John Barber Read
Eugene Cecil Sipe
Lillian Franklin Thomasson
Leonard DeLong Wallace
Annie John Williams
James William Williams
Loetta Josephine Willis
Lemuel David Wyly, Jr.
Andrew Henry Yarrow

Doctors of Philosophy

Warren F. Bartz, *Chemistry*
Thesis: The Action of Aqueous Sulfur Dioxide on the Oxides of Aluminum, Iron, and on Minerals Containing Them.

Frederick Horner Bunting, *Economics and Commerce*
Thesis: Federal, State, and Local Relations in the Financing of Relief.

Fred Kingsley Elder, *Education*
Thesis: Freedom in South Carolina As Shown by Church-State Relationships in Higher Education in South Carolina.

Peter Sijer Hansen, *Music*
Thesis: The Life and Works of Dominico Phinot (c. 1510-c. 1555).

Howard Movess Nahikian, *Mathematics*
Thesis: Application of the Analytic Triangle to Higher Plane Curves.

Walter Wycliffe Owen, *Chemistry*
Thesis: The Permeability of Regenerated Cellulose Film to Carbon Dioxide.

Merritt Bloodworth Pound, *History*
Thesis: The Public Career of Benjamin Hawkins.

Olive Matthews Stone, *Sociology*
Thesis: Agrarian Conflict in Alabama: Sections, Races, and Classes in a Rural State from 1800 to 1938.

Francis Sidney Wilder, *Economics and Commerce*
Thesis: Some Regional Variations in Standards of Living.

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